

Numeracy Homework

Year 7

Name: _____

Class: _____

Teacher: _____

20-4-10

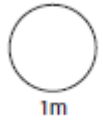
- You should spend 20mins for 10 days practicing for your Numeracy tests.
- Your parents/ guardians have been given an answer sheet so that they can check your work.
- Colour the boxes red or green depending on whether you got the question right or wrong.

1	Add and subtract decimals										
2	Round to decimal places										
3	Estimation										
4	Apply key mental facts										
5	Read and write numbers of any size										
6	BODMAS										
7	Equivalent F, D, P										
8	Perimeter and Area										
9	Non-Calculator percentages										
10	Use the averages and range										
11	Multiply by 0.5, 0.2, 0.1										
12	Multiplication and Division										
13	Measure and draw angles										
14	Convert metric units										
15	Read scales										
16	Use the term square and square root										
17	Profit and Loss										
18	Understand time and time zones										
19	Ratio and Proportion										
20	Interpret graphs and charts										
	List 3 things you struggled with.	D	D	D	D	D	D	D	D	D	D
	1.	a	a	a	a	a	a	a	a	a	a
		y	y	y	y	y	y	y	y	y	y
	2.	1	2	3	4	5	6	7	8	9	10
	3										

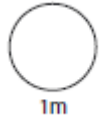
HW 1

1

$$1.75 + \boxed{} = 2$$

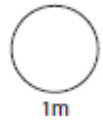


$$\boxed{} + 0.105 = 1$$



2

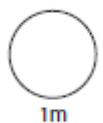
Round 24.87623 to 1 decimal place.



3

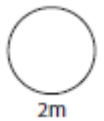
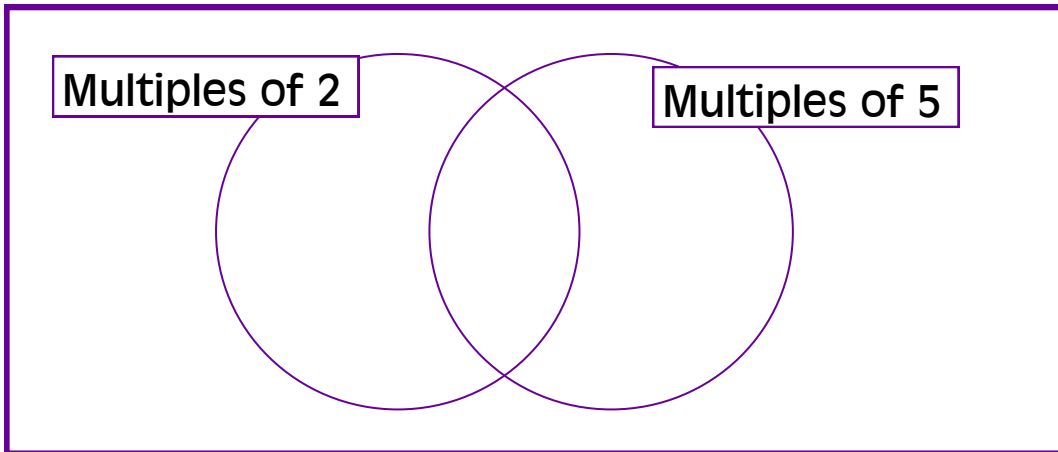
£1.52 £2.01 £4.98 £8.46

Estimate the total amount.



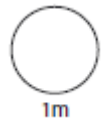
4

Sort 6, 10, 12 and 15 into the diagrams.

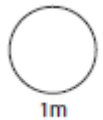


5

Write **two hundred** less than three thousand in **figures**.

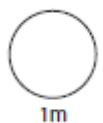


Write **4 times** one million in **figures**.



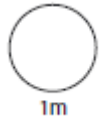
6

$$9 + 7 - 4 \times 2$$

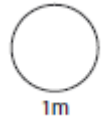


7

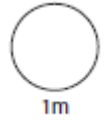
Write $\frac{1}{4}$ as a decimal.



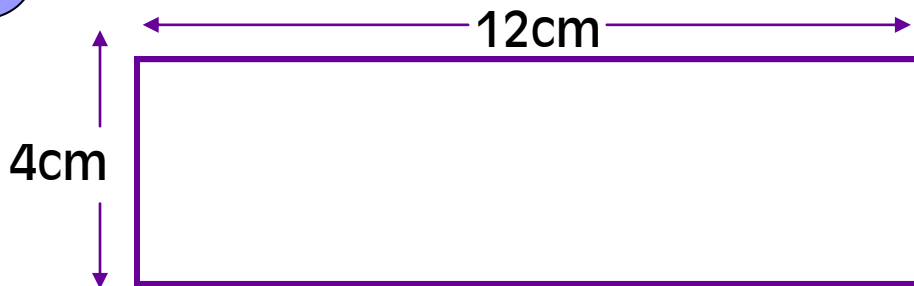
Write 0.7 as a fraction.



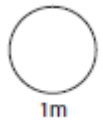
Write $\frac{1}{2}$ as a percentage

 %

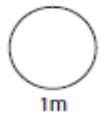
8



Area =

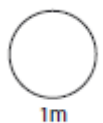


Perimeter =



9

1% of £600 = £



10

Ages in a room:

23 17 34 12 19 27

What is the range?



11

$0.6 \times 0.7 =$



$13 \times 0.5 =$



12

Work out $192 \div 16$



13

In the space below draw an angle of 120°



14

Convert the following metric units

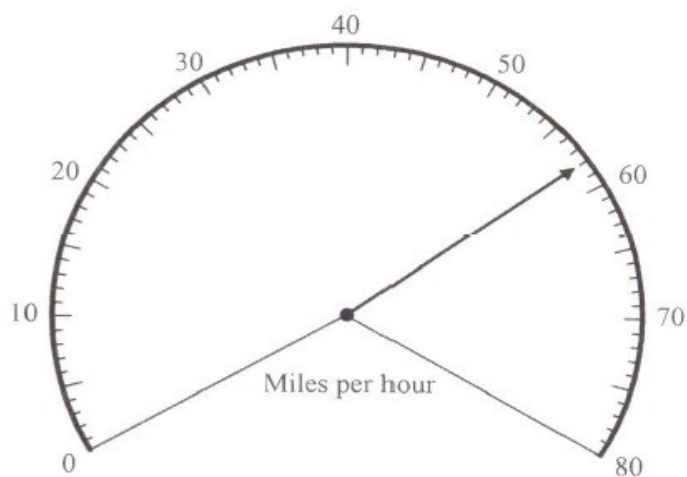
2.4cm =

3.4m =



15

The diagram shows the speed of a car.



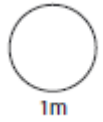
Write down the speed of the car.

mph

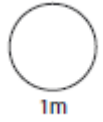


16

$4^2 =$

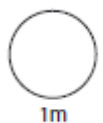
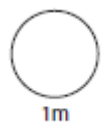
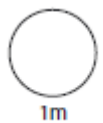


$\sqrt{81} =$



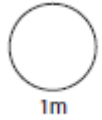
17

A green grocer bought 8 bunches of grapes for £6.40. He sold each bunch for £1.20. How much profit did he make?



18

Beth is on holiday at Abersoch. High tide this morning is 7.35 a.m.. The next high tide is n 12 hours 23 minutes time. What is the time of the next high tide ?

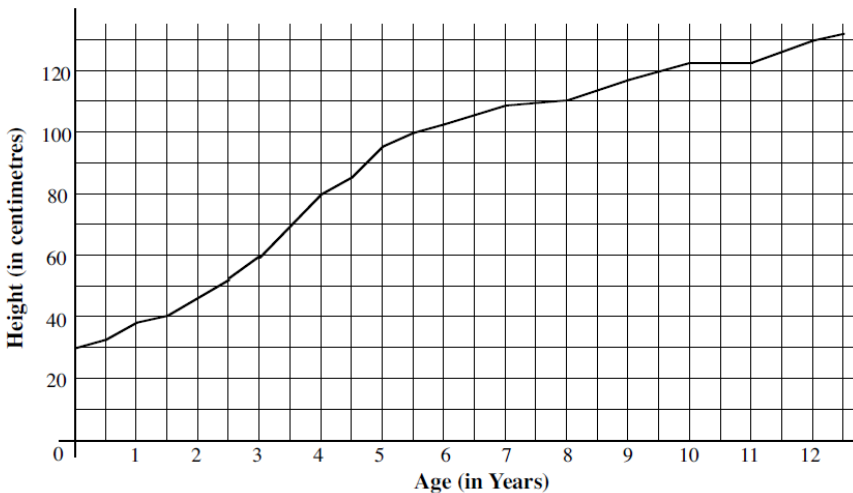


19

To make suet you need fat to flour in the ratio 1: 3. Jane has 120 g of flour. How much fat does she need to make the suet ?

20

The line graph below shows Sharon's height from being born to the present day

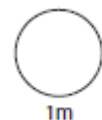
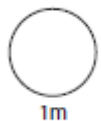
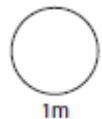
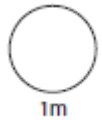


a) What height was Sharon when she was:-

i). 3

ii). 9 1/2

b) In which period of time did she not change height ?



HW 2

1

$$2.25 + \boxed{} = 10$$



$$\boxed{} + 0.895 = 1$$



2

Round 24.87623 to the nearest whole number.



3

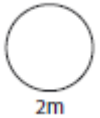
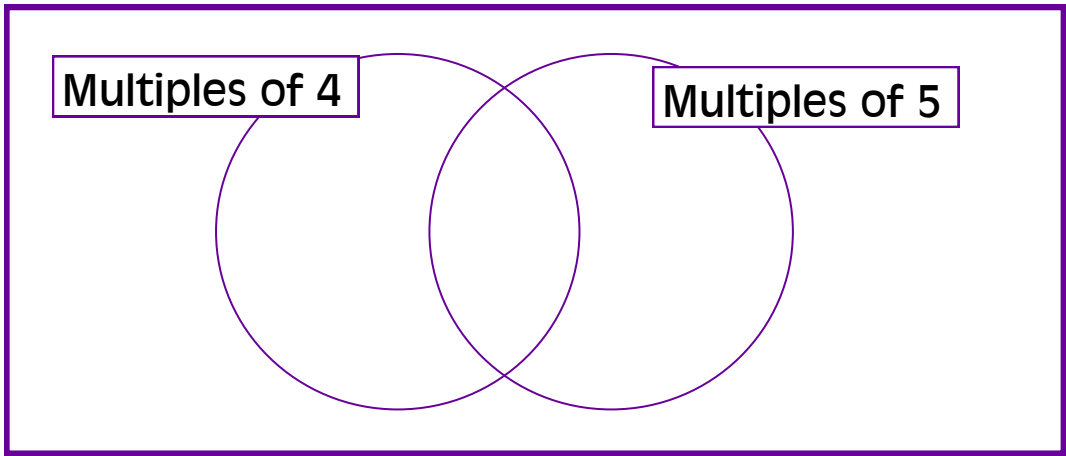
£24.56 £5.23 £67.89 £19.99

Estimate the total amount.



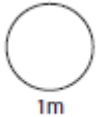
4

Sort 2, 8, 10, 12, 20, 24 into the diagrams.

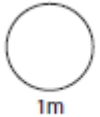


5

Write **two hundred** more than four thousand in **figures**.

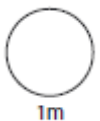


Five million, four hundred thousand three hundred and twelve in **figures**.



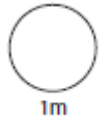
6

$10 + 7 \times (5 + 2)$

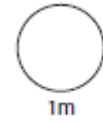


7

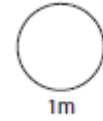
Write $1/10$ as a decimal.



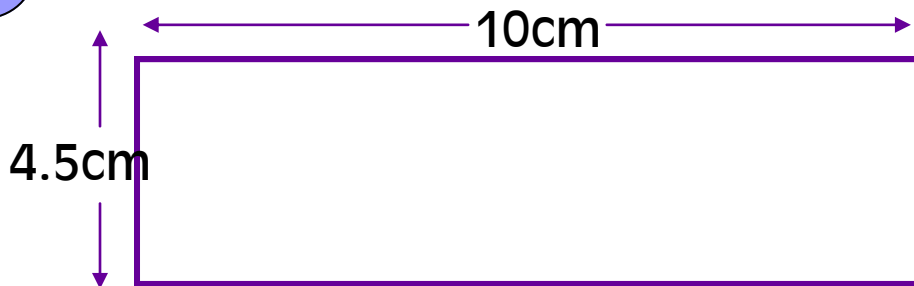
Write 0.07 as a fraction.



Write $1/4$ as a percentage

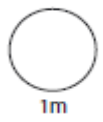
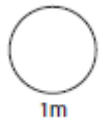
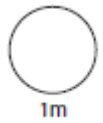
 %

8



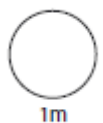
Area =

Perimeter =



9

5% of £800 =

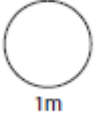


10

Ages in a room:

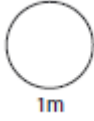
23 17 34 12 19 27

What is the mean?

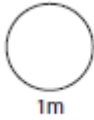


11

$12 \times 0.5 =$

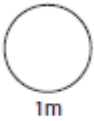
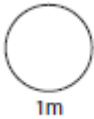


$34 \times 0.2 =$



12

Work out $306 \div 18$



13

In the space below draw an angle of 15°



14

Convert the following metric units

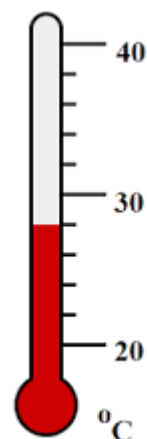
78mm = cm

760cm = m



15

The diagram shows the temperature on a thermometer.

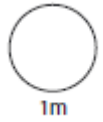


Write down the temperature.

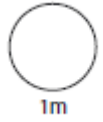


16

$3^2 + 2^2 =$

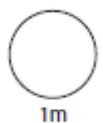
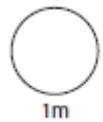
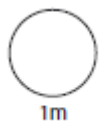


$\sqrt{121} =$



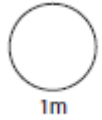
17

Paul owns a shop, and sells packets of cotton wool for £1.20 each. Paul buys a box containing 50 packets of cotton wool for £45. He sells 40 of these packets. What profit, if any, does he make?



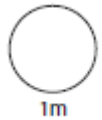
18

On May 23rd, the sun rose at 6.50 a.m. and set at 8.26 p.m.. For how long was the sun out ?

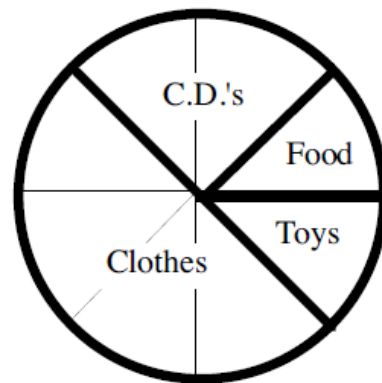


19

Mr. Forest has an orchard of apple and pear trees. The trees are planted in a ratio of 5 : 3 respectively. He has 45 apple trees, how many pear trees are there ?



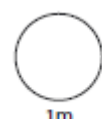
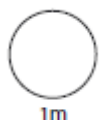
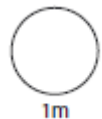
20



Phillip bought 40 items in town last Saturday. The pie chart shows the type of items bought.

How many of each of these items did he buy ?

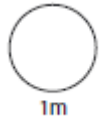
i). Food, ii). clothes, iii). C.D.'s .



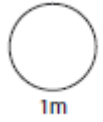
HW 3

1

$$2.25 + 7.5 = \boxed{}$$

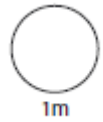


$$9.8 - 1.15 = \boxed{}$$



2

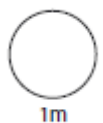
Round 13.456 to 1 decimal place



3

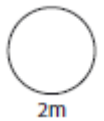
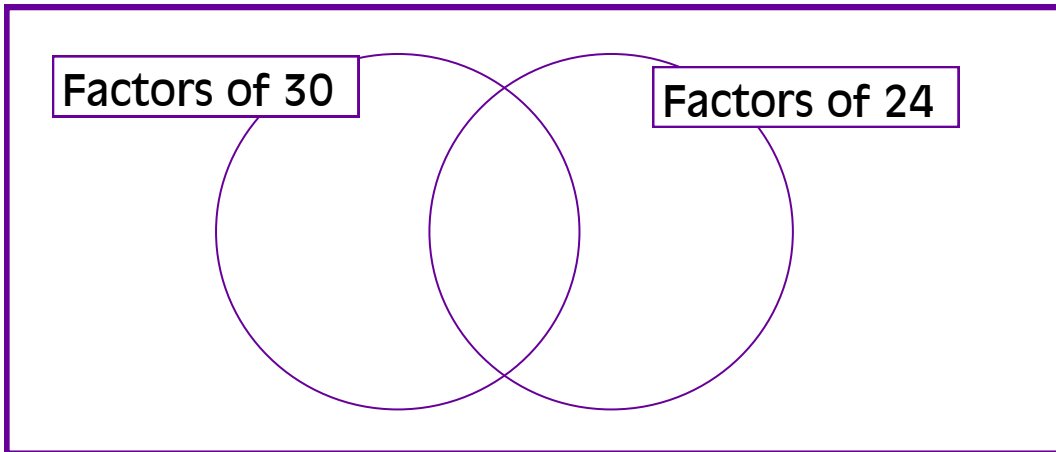
78g 23g 17g 87g

Estimate the total amount.



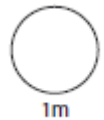
4

Sort 2, 5, 3, 10, 12 into the diagrams.

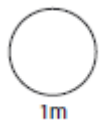


5

Write thirty four thousand six hundred and seventy in figures..

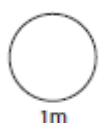


Write 76 540 in words.



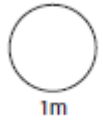
6

$(3 \times 4) \times (9 + 2)$

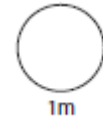


7

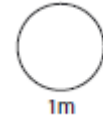
Write $\frac{3}{10}$ as a decimal.



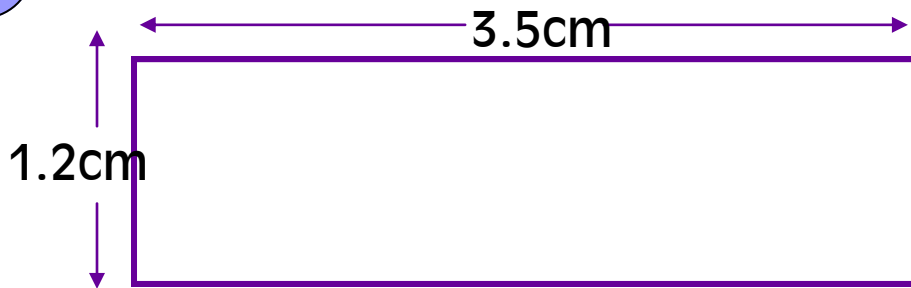
Write 0.2 as a fraction.



Write $\frac{1}{3}$ as a percentage

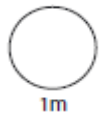
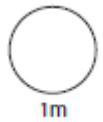
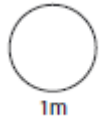
%

8



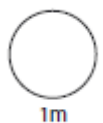
Area =

Perimeter =



9

15% of £200 =

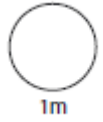


10

Shoe sizes in a room.

5 6 5 7 5 6 5 4

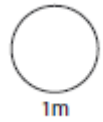
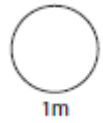
What is the mode?



11

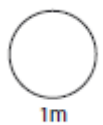
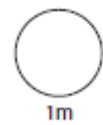
$12 \times 0.1 =$

$42 \times 0.1 =$



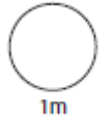
12

Work out $728 \div 14$



13

In the space below draw an angle of 55°

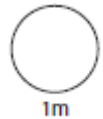
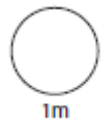


14

Convert the following metric units

78.9cm = mm

0.7m = cm



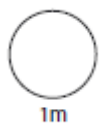
15

The diagram shows the speed of a car.



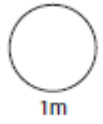
Write down the speed of the car.

mph

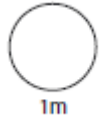


16

$8^2 =$

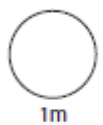
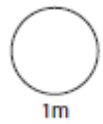
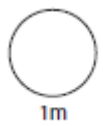


$\sqrt{36} =$



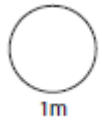
17

Mr and Mrs Smith bought three rugs for £30 and sold them for £18 each. How much profit did they make on them?



18

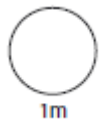
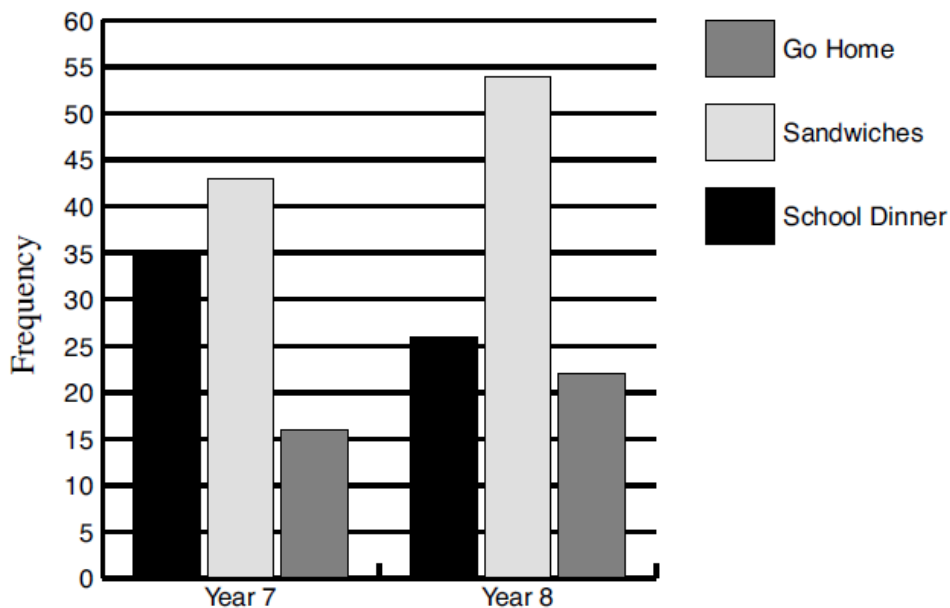
Hazel records two programmes from television. The first lasts 1 hour 35 minutes, and the second lasts 1 hour 45 minutes. The tape she records it on is a blank 4 hour tape. How much blank time does she have left on her tape after recording ?



19

One brand of coffee is made from Java beans and Colombian beans in the ratio 2 : 3. 270g of Colombian beans are used, how much of the other bean is needed ?

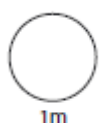
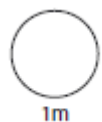
20



Year 7 and 8 pupils were asked what they did for lunch at school.

a). How many Year 7 pupils had school dinners,

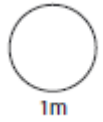
b). How many more Year 8 pupils had a school dinner than went home ?



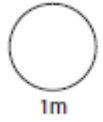
HW 4

1

$$2.25 + 7.5 = \boxed{}$$

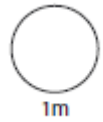


$$9.8 - 1.15 = \boxed{}$$



2

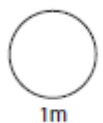
Round 13.456 to 1 decimal place



3

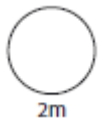
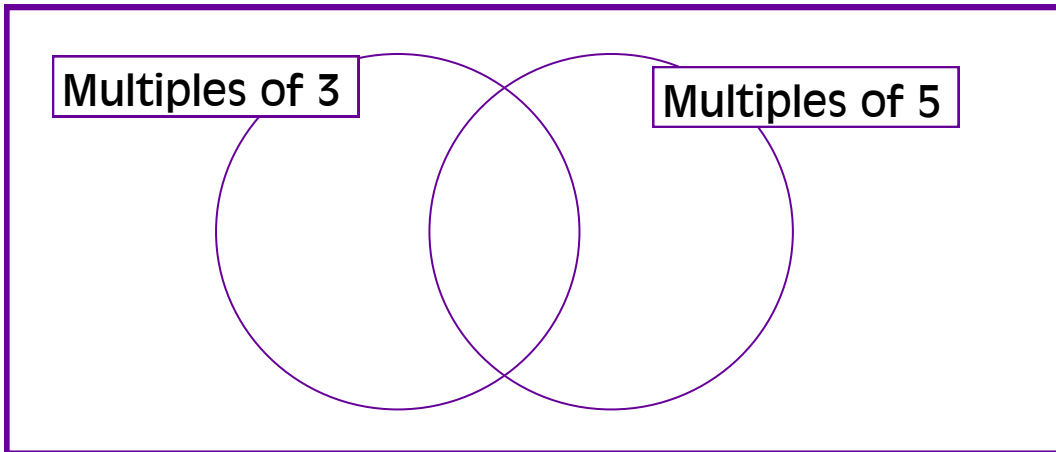
78g 23g 17g 87g

Estimate the total amount.



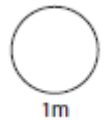
4

Sort 12, 30, 25, 45, 62 into the diagrams.

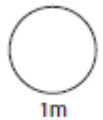


5

Write five times six hundred in figures.

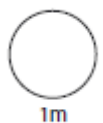


Write one half of sixty thousand in figures.



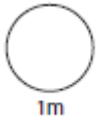
6

$$(6 \times 4) \div (3 \times 2)$$

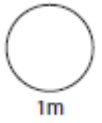


7

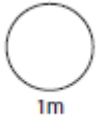
Write 0.76 as a percentage



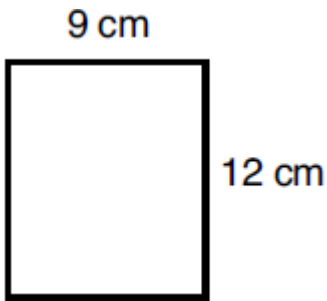
Write $\frac{3}{100}$ as a decimal.



Write $\frac{98}{100}$ as a percentage

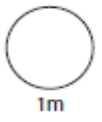
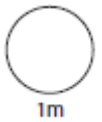
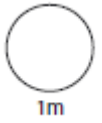


8



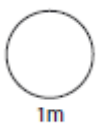
Area =

Perimeter =



9

75% of £840 =

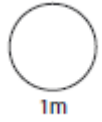


10

Number of goals scored in a season are listed below.

3 4 2 1 1 3 1 3 0

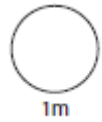
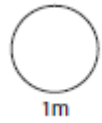
What is the mean number of goals in a game?



11

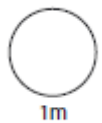
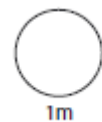
$$48 \times 0.5 =$$

$$9 \times 0.2 =$$



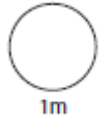
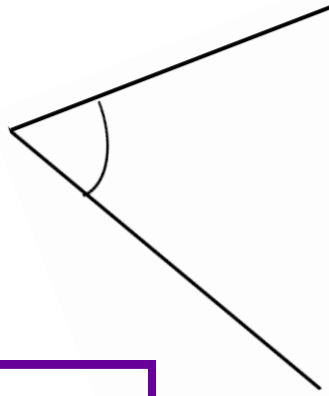
12

Work out $144 \div 6$



13

Measure the angle.

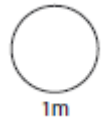
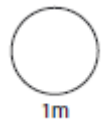


14

Convert the following metric units

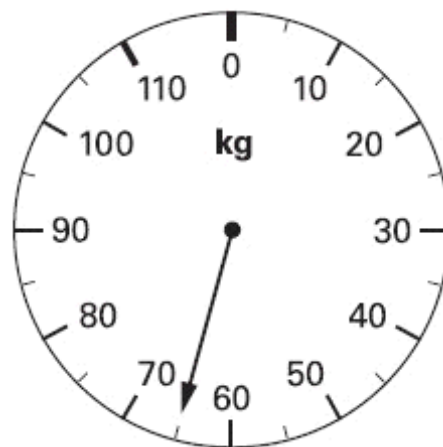
$$3000\text{m} = \text{ } \text{km}$$

$$8.7\text{cm} = \text{ } \text{m}$$

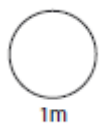


15

The scale shows how much Mrs Smith weighs. Mr Smith weighs 20 kg more.

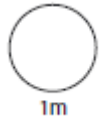


Write down Mr Smith's weight.

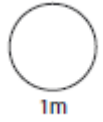


16

$7^2 =$



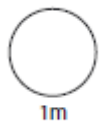
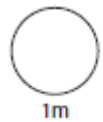
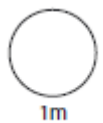
$\sqrt{400} =$



17

Book Sale
Any 3 books for £14.50

Jack bought 6 books in a book sale. They originally cost £5.99 each. How much money did Jack save?

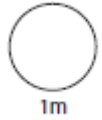


18

Here are the sunset times for some days in July.

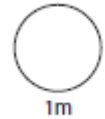
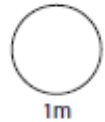
How many minutes earlier is the sunset on 28th than on the 14th July.

Date	Sunrise	Sunset
7th	04:53	21:18
14th	05:00	21:12
21st	05:09	21:05
28th	05:18	20:55



19

5 oranges cost £2.00. How much do 4 oranges cost?



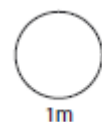
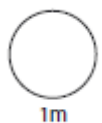
20

Aberdeen																			
540	Brighton																		
212	350	Carlisle																	
555	166	345	Exeter																
142	442	92	440	Glasgow															
310	241	115	268	210	Leeds														
327	236	116	234	210	40	Manchester													
341	210	144	237	242	33	38	Sheffield												
302	250	112	290	206	24	64	52	York											
490	53	296	171	390	190	181	160	195	London										

This is a mileage chart showing how many miles there are between towns and cities in Britain.

Which is closer to London and by how many miles ?

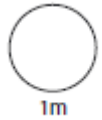
Manchester or Exeter.



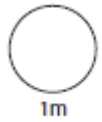
HW 5

1

$$3.48 + 5.12 =$$

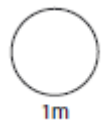


$$9.81 - 1.89 =$$



2

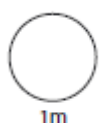
Round £7.51 to the nearest pound.



3

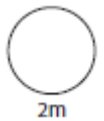
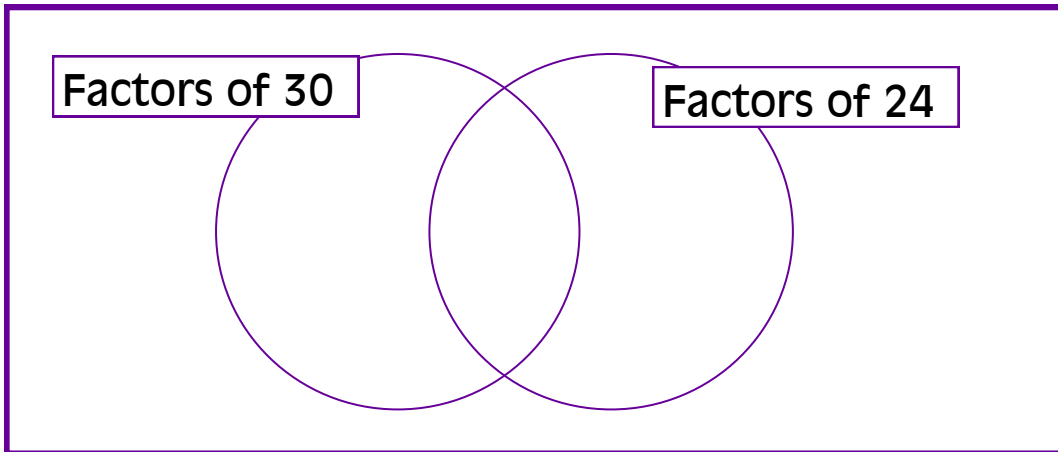
17km 201km 45km 78km

Estimate the total amount.



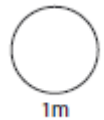
4

Sort 2, 5, 3, 10, 12 into the diagrams.

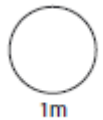


5

Write thirty four thousand six hundred and seventy in figures..

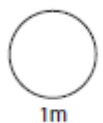


Write 76 540 in words.



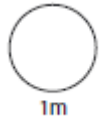
6

$(3 \times 4) \times (9 + 2)$

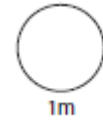


7

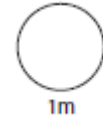
Write $\frac{1}{3}$ as a decimal.



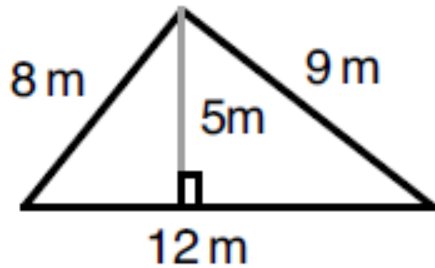
Write 0.25 as a fraction.



Write $\frac{2}{5}$ as a percentage

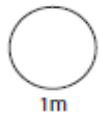
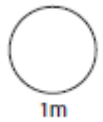
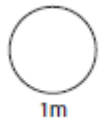
 %

8



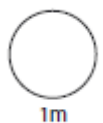
Area =

Perimeter =



9

25% of £480 =

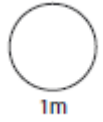


10

Shoe sizes in a room.

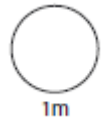
5 6 5 7 5 6 5 4

What is the range?

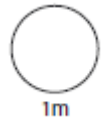


11

$12 \times 0.2 =$

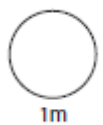
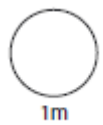


$4 \times 0.5 =$



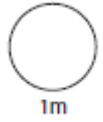
12

Work out $266 \div 14$



13

In the space below draw an angle of 55°

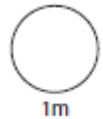
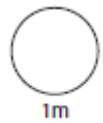


14

Convert the following metric units

78.9cm = mm

0.7m = cm



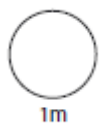
15

The diagram shows the speed of a car.



Write down the speed of the car.

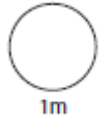
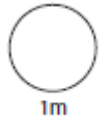
mph



16

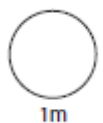
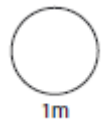
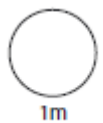
$11^2 = \boxed{}$

$\sqrt{49} = \boxed{}$



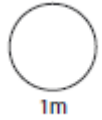
17

Matthew tried to sell a new type of kitchen cleaner in his shop. He bought a box of 20 bottles for £15. He sold them at 95p each, but only sold 2 bottles. He then reduced them and sold 6 bottles at 85p. Calculate the loss that the shop made on the kitchen cleaner.



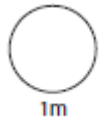
18

Jenny leaves home at 09.25 to go to London. She takes 50 minutes to get to the railway station, where she waits 15 minutes for the train. The train journey takes 90 minutes. At what time does she arrive in London?

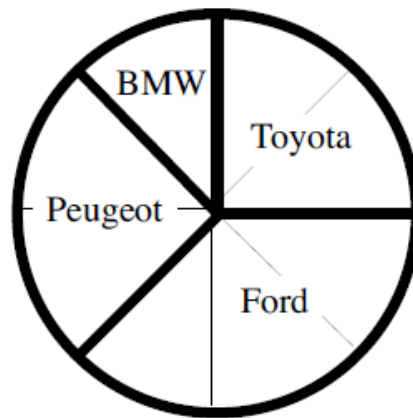


19

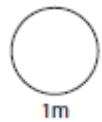
The ratio of boys to girls in a classroom is 1:2, there are 16 girls. How many boys are there?



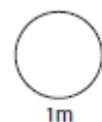
20



Jenny did a survey on makes of cars outside her house. From the results she drew out this pie chart.



She saw 9 BMWs, how many cars did she survey altogether?



HW 6

1

$$\begin{array}{|c|c|c|} \hline 4 & & 4 \\ \hline \end{array} + \begin{array}{|c|c|c|} \hline 3 & 8 & \\ \hline \end{array} = \begin{array}{|c|c|c|} \hline 8 & 5 & 1 \\ \hline \end{array}$$



1m

2

Round the following numbers.

540 to the nearest 100



1m

236 to the nearest 10



1m

1.75 to the nearest whole number



1m

3

17km 201km 45km 78km

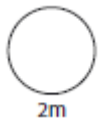
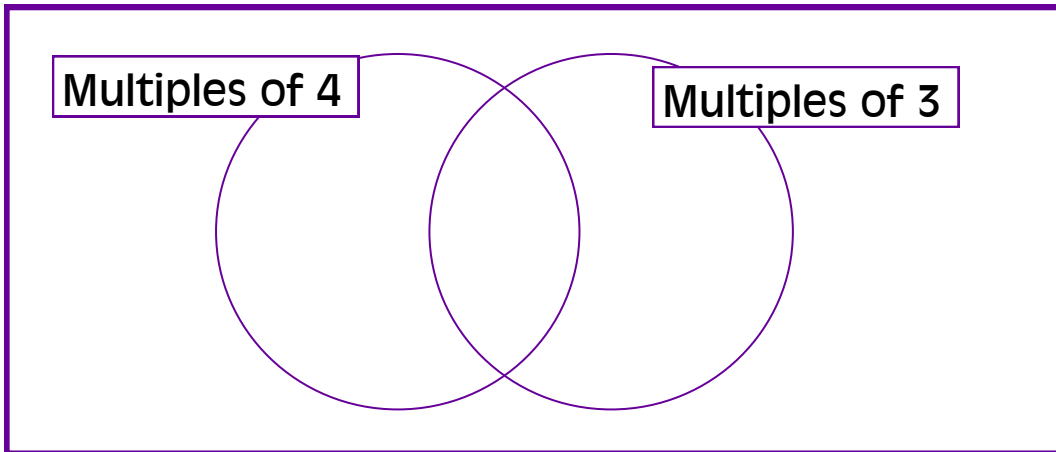
Estimate the total amount.



1m

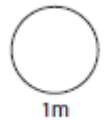
4

Sort 6, 10, 12, 21 and 16 into the diagrams.

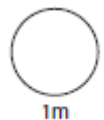


5

Write 500 more than two thousand in figures.

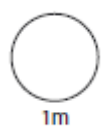


Write three times five thousand in figures.



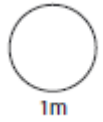
6

$$6 \times 10 - 4 \times 2$$

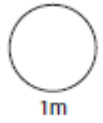


7

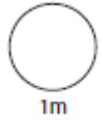
Write $\frac{2}{3}$ as a decimal.



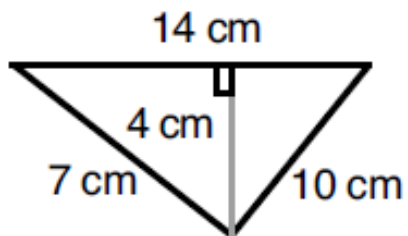
Write 0.6 as a fraction.



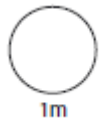
Write $\frac{3}{10}$ as a percentage



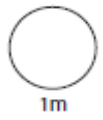
8



Area =

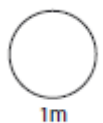


Perimeter =



9

20% of £120 =

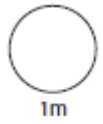


10

Ages in a room.

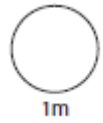
10 12 11 12 13 13 10 7 10

What is the mode age?

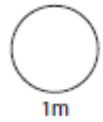


11

$$100 \times 0.1 =$$

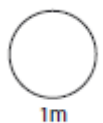
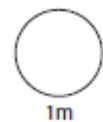


$$21 \times 0.5 =$$



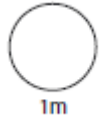
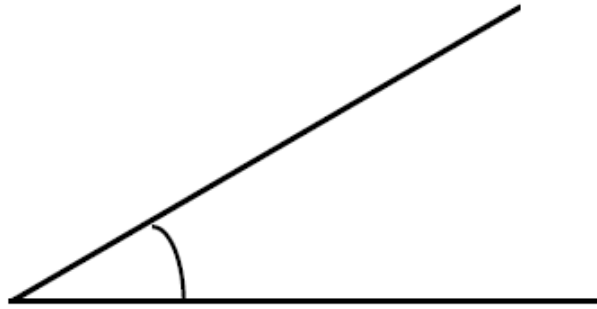
12

Work out $576 \div 18$



13

Measure the angle.

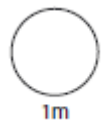
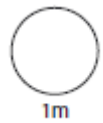


14

Convert the following metric units

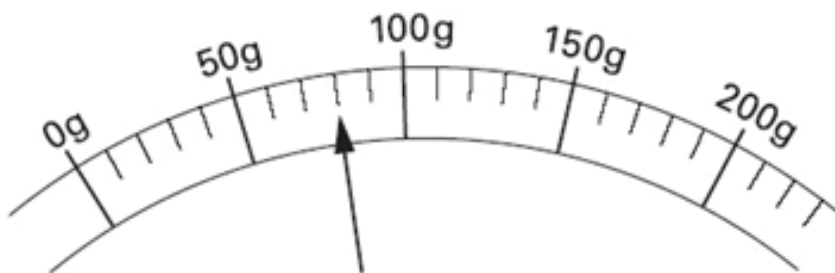
350mm = cm

7800m = km

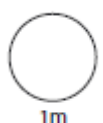


15

Here is a scale to show the weight of a letter.

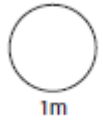


How much does the letter weigh.

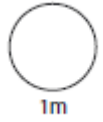


16

$6^2 =$

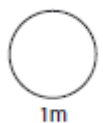
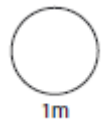
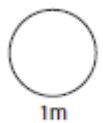


$\sqrt{4} =$



17

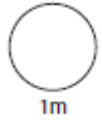
A shop keeper bought a box of batteries for £50. There are 100 batteries in a box and she sold all of them for 85p each. How much profit did she make?



18

Benny is travelling to Calais. It takes him 40 minutes to get to the train station. He waits 10 minutes for the train. The train journey takes 2 hours exactly to Dover. At Dover he waits 25 minutes for the ferry. The journey on the ferry takes three and a quarter hours.

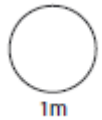
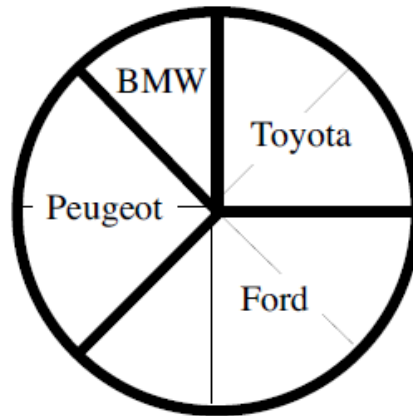
If he arrives in Calais at 5.15 p.m., what time did he start out on his journey



19

The ratio of boys to girls in a classroom is 2:3, there are 10 girls. How many boys are there?

20



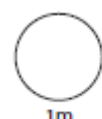
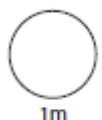
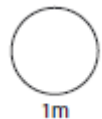
Jenny did a survey on makes of cars outside her house. From the results she drew out this pie chart.

She saw 9 BMWs, how many of each other type did she see?

Ford= _____

Toyota= _____

Peugeot= _____



HW 7

1

$$150 + \boxed{} = 500$$

$$172 - \boxed{} = 60$$



2

Round the following numbers.

1789 to the nearest 100

876 to the nearest 10

2.15 to the nearest whole number



3

11.56m

12.8m

34.5m

3.2m

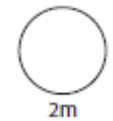
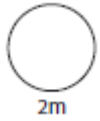
Estimate the total distance.



4

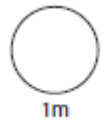
List the first four multiples of 10

List all the factors of 24

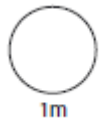


5

Write twenty more than four hundred in figures.

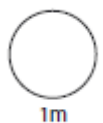


Write five thousand less than twenty thousand in figures.



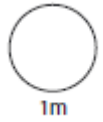
6

$$40 - (3 + 2)^2$$

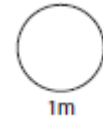


7

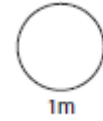
Write $\frac{4}{5}$ as a decimal.



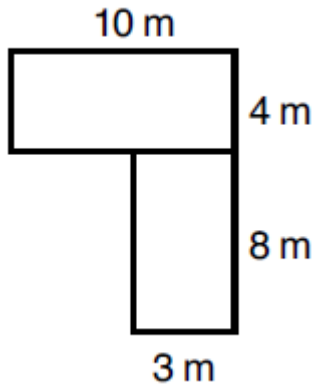
Write 0.05 as a fraction.



Write $\frac{7}{10}$ as a percentage

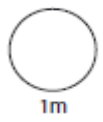
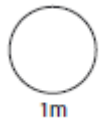


8



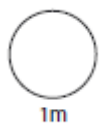
Area =

Perimeter =



9

40% of £350 =

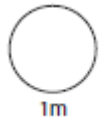


10

Ages in a room.

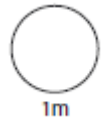
10 12 11 12 13 13 10 7 10 9

What is the median age?

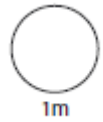


11

$12 \times 0.5 =$

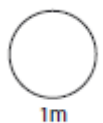
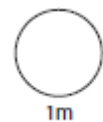


$1.2 \times 0.5 =$



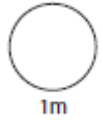
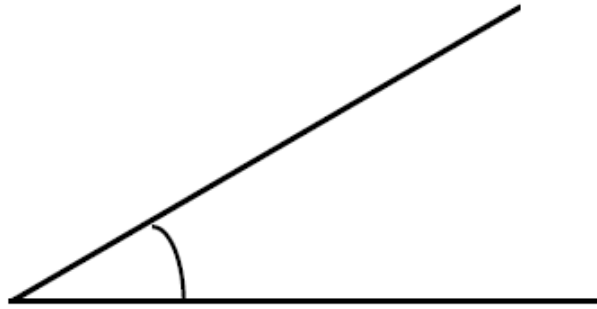
12

Work out $585 \div 13$



13

Measure the angle.

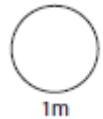
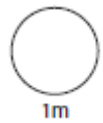


14

Convert the following metric units

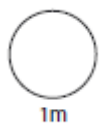
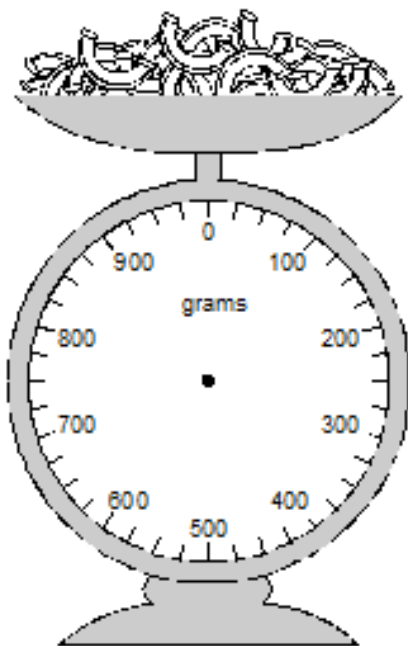
350mm = cm

7800m = km



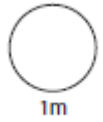
15

Jamie is cooking pasta. He weighs out 520g.
Draw an arrow on the scales to show 520g.



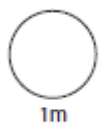
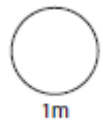
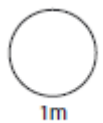
16

$$\sqrt{4} + 5^2 = \boxed{}$$



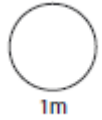
17

A shop keeper buys a loaf of bread for 80p and a 2 packets of ham for £1.20 each? He makes 10 sandwiches from these ingredients and sells them for £2.10 each. How much profit, if any. does he make?



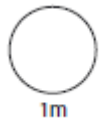
18

Milking time at the farm starts at 07.45, it takes two and a quarter hours. What time does it finish ?

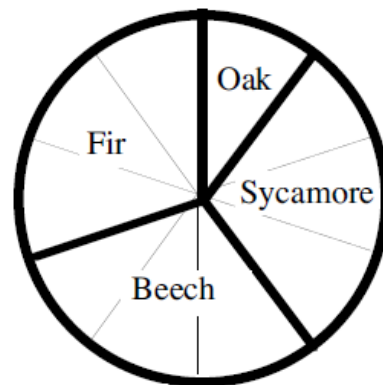


19

The ratio of oranges to pineapples in tropical fruit juice is 1:5. If a vat of juice contains 4 oranges, how many pineapples are there?

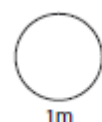
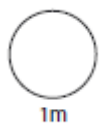
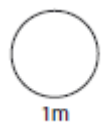
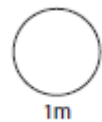


20



A National Trust garden surveyed the different types of trees in their garden. The results are shown in the pie chart. 90 trees were surveyed altogether. How many of each type is in the garden?

Fir _____
Oak: _____
Beech: _____
Sycamore: _____



HW 8

1

$$\boxed{} + 85 = 200$$

$$120 - 51 = \boxed{}$$



2

Round the following numbers.

2076 to the nearest 100

123 to the nearest 10

12.53 to the nearest whole number



3

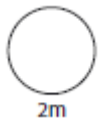
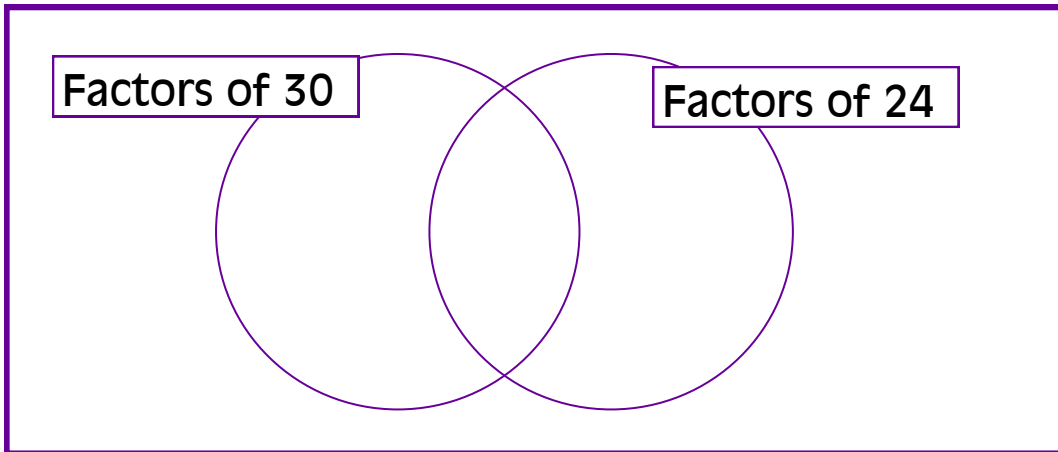
£204 £340 £173 £32.50

Estimate the total amount.



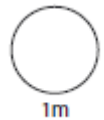
4

Sort 2, 5, 3, 10, 12 into the diagrams.

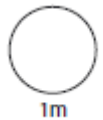


5

Write seven thousand six hundred and eleven in figures

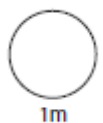


Write 120 450 in words



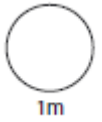
6

$$7 + 4^2 \times 2$$



7

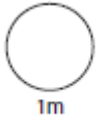
Write 0.9 as a percentage



Write 3/4 as a decimal.



Write 17/100 as a percentage



8

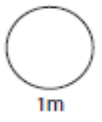
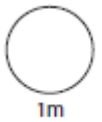
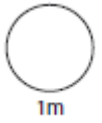
1.5 m



20 cm

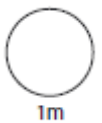
Area =

Perimeter =



9

35% of £520 =

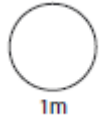


10

Ages in a room.

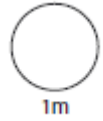
10 12 11 12 13 13 10 7

What is the mean age?

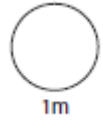


11

$100 \times 0.2 =$

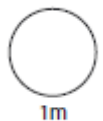
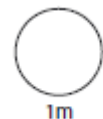


$7 \times 0.5 =$



12

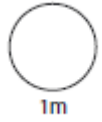
Work out $432 \div 18$



13



Measure the angle.

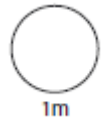
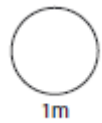


14

Convert the following metric units

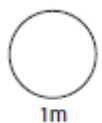
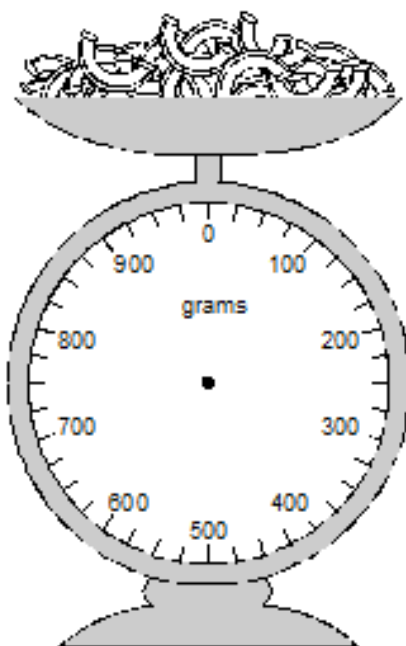
$3500\text{m} = \text{ } \text{km}$

$14,2\text{km} = \text{ } \text{m}$



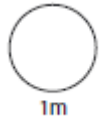
15

Jamie is cooking pasta. He weighs out 350g.
Draw an arrow on the scales to show 350g.

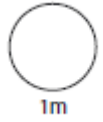


16

$13^2 =$



$\sqrt{144} =$

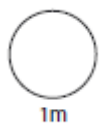
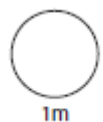
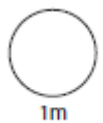


17

Book Sale
Any 3 books for £14.50

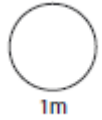


Lee bought three books in a book sale.
They originally cost £4.20, £7.50 and £8.90. How much money did Lee save?



18

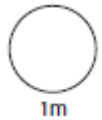
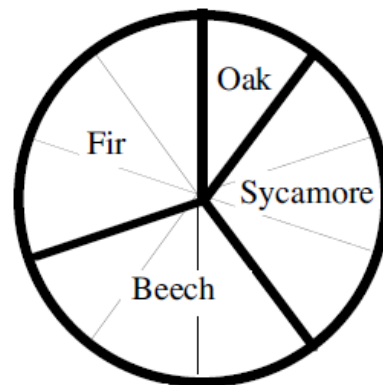
The new '13' ide at Alton Towers takes exactly 43 seconds from start to finish. If I go on the ride 3 times, how long have I been on for? Give your answer in minutes and seconds.



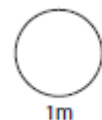
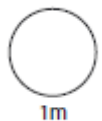
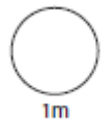
19

Three books cost £3.60. How much would 2 books cost?

20



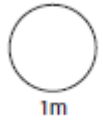
A National Trust garden surveyed the different types of trees in their garden. 18 fir trees were counted. How many trees were surveyed altogether?



HW 9

1

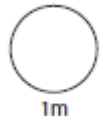
$$60 + 99 + \boxed{} = 340$$



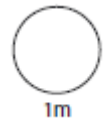
2

Round the following numbers.

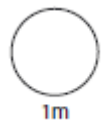
626 to the nearest 100



1786 to the nearest 10



156.2 to the nearest whole number



3

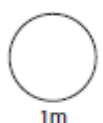
£1.67

£14.52

£23.78

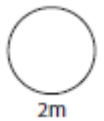
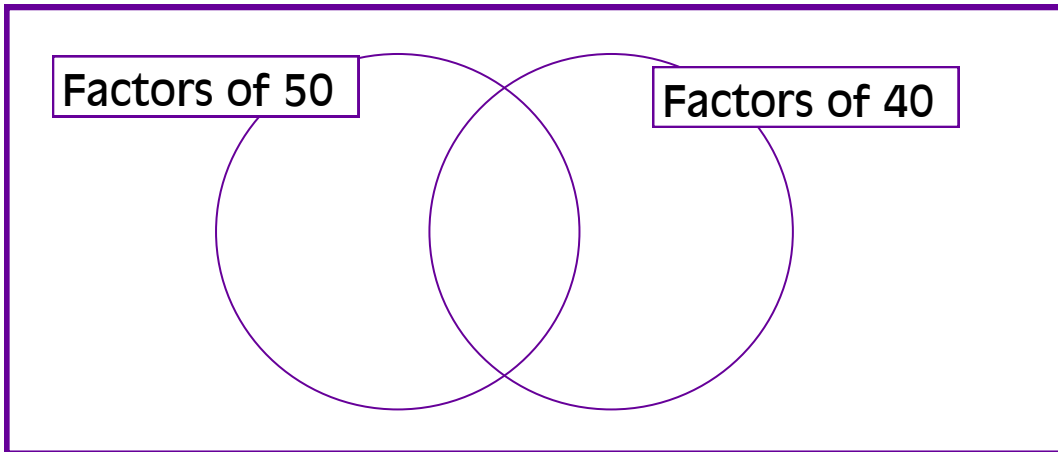
£3.18

Estimate the total amount.



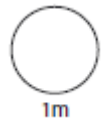
4

Sort 2, 5, 20, 12, 8 into the diagrams.

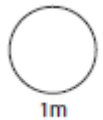


5

Write three million, four hundred and 7 thousand in figures

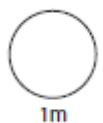


Write 67 890 in words



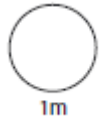
6

$$18 + 12 \div 3$$

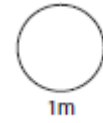


7

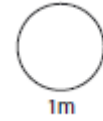
Write 0.17 as a percentage



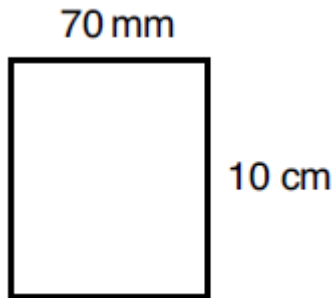
Write $174/1000$ as a decimal.



Write $34/50$ as a percentage

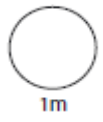
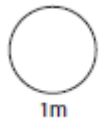
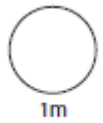


8



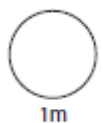
Area =

Perimeter =



9

80% of £150 =

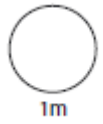


10

Ages in a room.

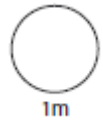
10 12 11 12 13 13 10 7 10

What is the range of the ages?

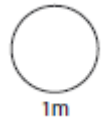


11

$$6 \times 0.2 =$$

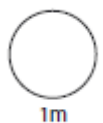


$$45 \times 0.1 =$$



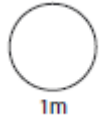
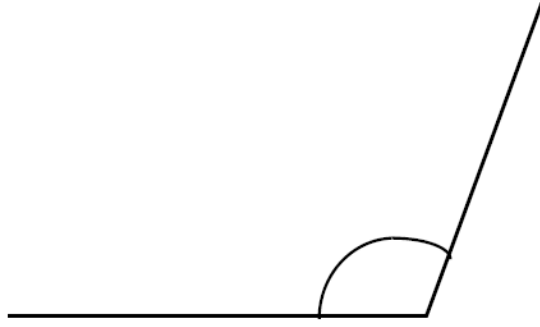
12

Work out $552 \div 24$



13

Measure the angle.

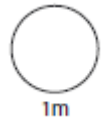
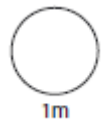


14

Convert the following metric units

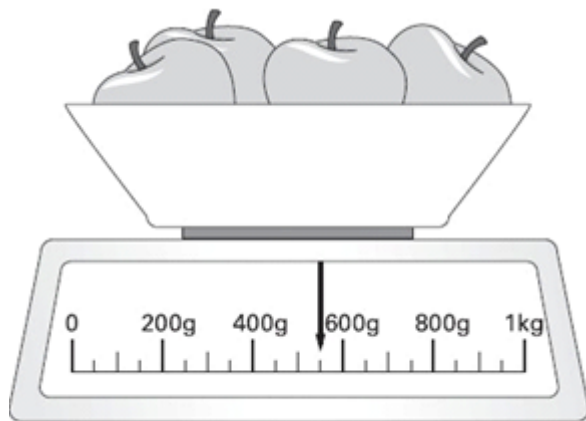
$$4000\text{m} = \text{ } \text{km}$$

$$7.8\text{km} = \text{ } \text{m}$$

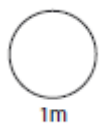


15

Here are some apples.

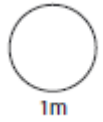


Write down the weight of the apples..

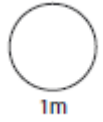


16

$20^2 =$

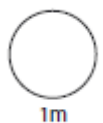
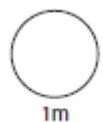
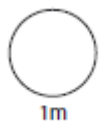


$\sqrt{25} =$



17

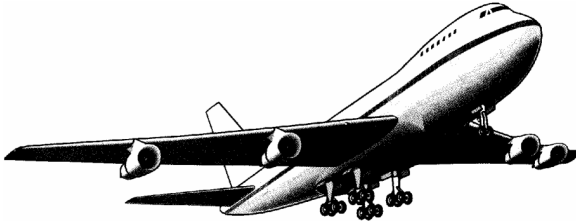
A shop keeper bought a box of chocolate bars for £20. There are 40 bars in a box and he sold all of them for 70p. How much profit did he make?

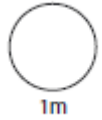


18

An aeroplane takes off on Tuesday at 22:47 it lands on Wednesday at 07:05

How long in hours and minutes is the flight?





19

Two bicycles cost £140, how much would 3 bicycles cost?

20

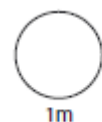
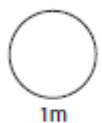
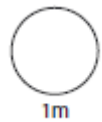
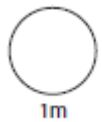
Aberdeen										
540	Brighton									
212	350	Carlisle								
555	166	345	Exeter							
142	442	92	440	Glasgow						
310	241	115	268	210	Leeds					
327	236	116	234	210	40	Manchester				
341	210	144	237	242	33	38	Sheffield			
302	250	112	290	206	24	64	52	York		
490	53	296	171	390	190	181	160	195	London	

This is a mileage chart showing how many miles there are between towns and cities in Britain.

How many miles are there between:

a) London and Glasgow?

b) York and Aberdeen?



HW 10

1

$$100 - (22.75 + 19.08) =$$



2

Round the following numbers.

6789 to the nearest 1000

2351 to the nearest 100

18.54 to the nearest whole number



3

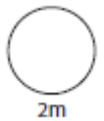
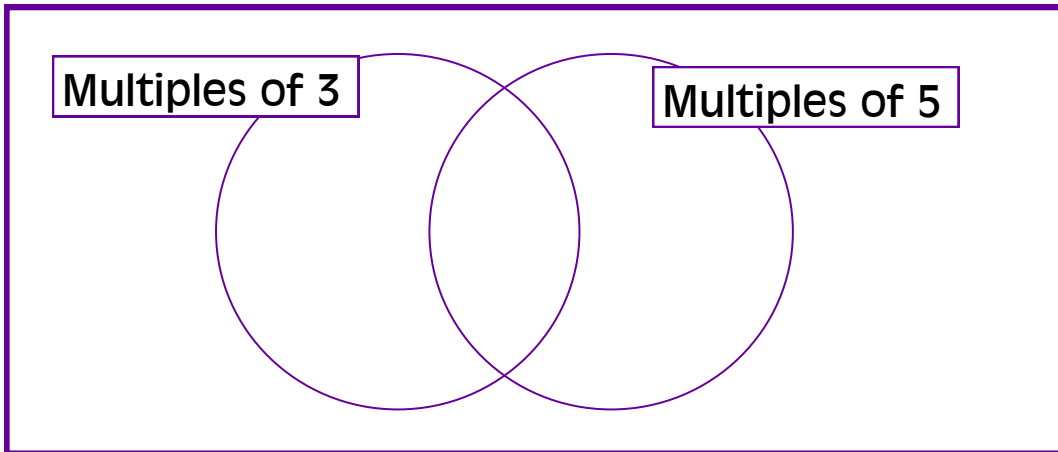
23cm 47.8cm 17.21cm 89.72cm

Estimate the total length.



4

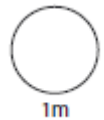
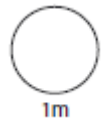
Sort 2, 5, 3, 10, 12, 15 into the diagrams.



5

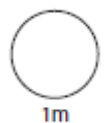
Write four times five thousand in figures.

Write 67 320 in words



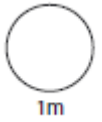
6

$$18 \div 3^2$$



7

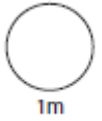
Write 0.76 as a percentage



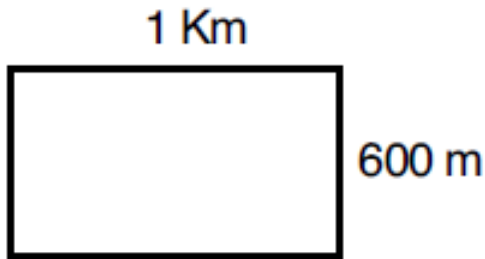
Write 3/100 as a decimal.



Write 98/100 as a percentage

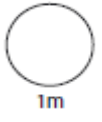
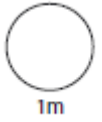
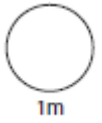


8



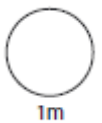
Area =

Perimeter =



9

11% of £450 =

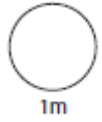


10

Number of goals scored in a season are listed below.

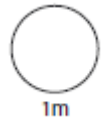
0 2 2 3 0 4 2 1 1 1

What is the mean number of goals in a game?

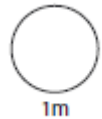


11

$18 \times 0.5 =$

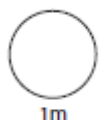
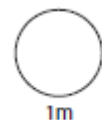


$14 \times 0.2 =$



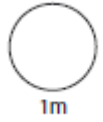
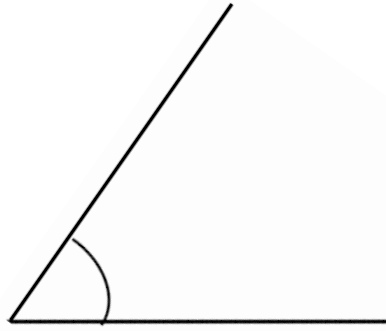
12

Work out $768 \div 16$



13

Measure the angle.

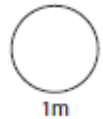
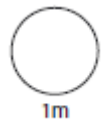


14

Convert the following metric units

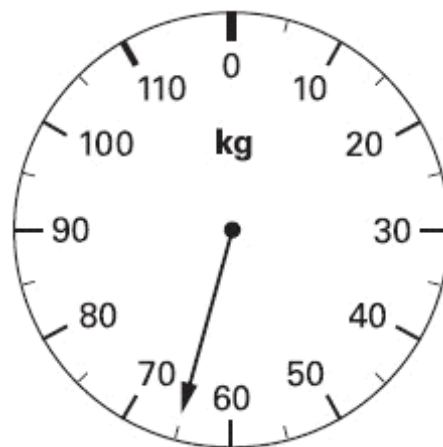
$$1230\text{m} = \text{ } \text{km}$$

$$98\text{cm} = \text{ } \text{m}$$

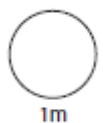


15

The scale shows how much Mrs Smith weighs.

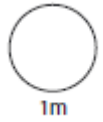


Write down her weight.

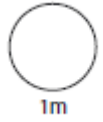


16

$5^2 =$



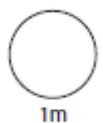
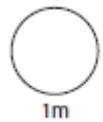
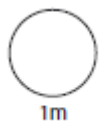
$\sqrt{9} =$



17

Book Sale
Any 3 books for £14.50

Sam bought 6 books in a book sale. They originally cost £5.20 each. How much money did Sam save?

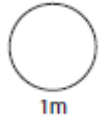


18

Here are the sunset times for some days in July.

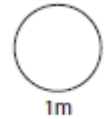
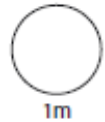
How many minutes earlier is the sunset on 28th than on the 7th July.

Date	Sunrise	Sunset
7th	04:53	21:18
14th	05:00	21:12
21st	05:09	21:05
28th	05:18	20:55



19

5 oranges cost £2.00. How much do 2 oranges cost?



20

Aberdeen	Brighton		Carlisle		Exeter		Glasgow		Leeds		Manchester		Sheffield		York		London
540																	
212	350																
555	166	345															
142	442	92	440														
310	241	115	268	210													
327	236	116	234	210	40												
341	210	144	237	242	33	38											
302	250	112	290	206	24	64	52										
490	53	296	171	390	190	181	160	195									

This is a mileage chart showing how many miles there are between towns and cities in Britain.

Which is closer to London and by how many miles ?

Aberdeen or Carlisle.

