

PROCEDURAL

9EP18

First name _____

Last name _____

School _____

Class _____

Date of birth ○○ ○○ ○○○○

Date of test ○○ ○○ 2018

Total score (maximum 36)

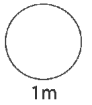


165131



1

$$360 - 30 \times 2 =$$



2



Costs of these books:

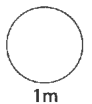
£ 9.99

£ 9.99

£14.99

Estimate, to the nearest £, the total cost.

£



3

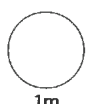
Elan compares the cost of a soft drink in different shops.

The **range** is 30p.

The lowest cost is 35p.

What is the highest cost?

p



4

2 : 3 is the same ratio as 4 :

1m

5

Here are some Australian bank notes:



Darren has **five** 50 dollar notes, **ten** 20 dollar notes and **five** 10 dollar notes.

How many dollars does he have altogether?

1m

1 Australian dollar = £0.60

How much are his Australian dollars worth in £?



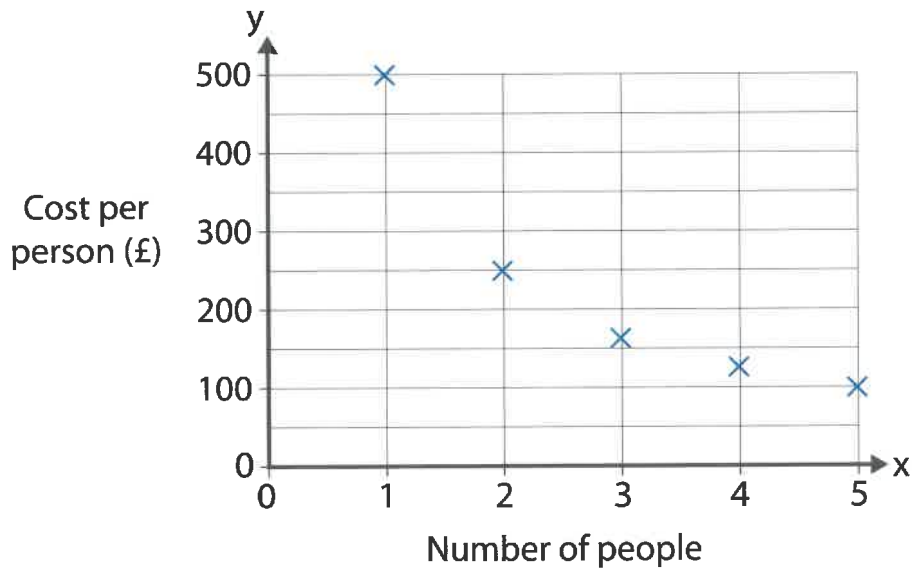
£

2m

TOTAL

7m

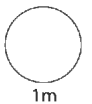
- 6 The graph shows how much it costs per person to rent a house for a week.



The cost per person is more if 1 person rents the house than if 5 people rent the house.

How much more does it cost per person?

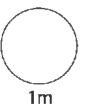
£ more per person



- 7 1cm on a map represents $\frac{1}{4}$ kilometre.

How many kilometres does 10cm on the map represent?

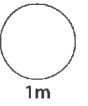
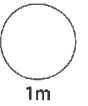
kilometres



8 Round these numbers to 3 significant figures:

6.7581 →


12.9832 →



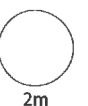
9 The table shows **monthly** payments for £100000 of life insurance.

Age (years)	Payment each month
30	£ 5.00
40	£ 9.40
50	£20.50

In **one year** how much more does a 50-year-old pay than a 30-year-old?



£ more



TOTAL



- 10 Write these numbers in order of size.

3^3

2^4

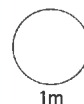
5^2

3^2

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smallest

biggest



1m

- 11 Milek walks at a constant speed.

Write the missing numbers in the table.

Time he takes	Distance travelled
1 minute	100 metres
minutes	1 kilometre
1 hour	kilometres



1m



1m

- 12 Black bears hibernate in the winter.

They lose between 15% and 30% of their mass when hibernating.

This black bear weighs 80kg.

After hibernating its mass is likely to be

between

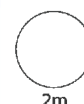
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kg

and

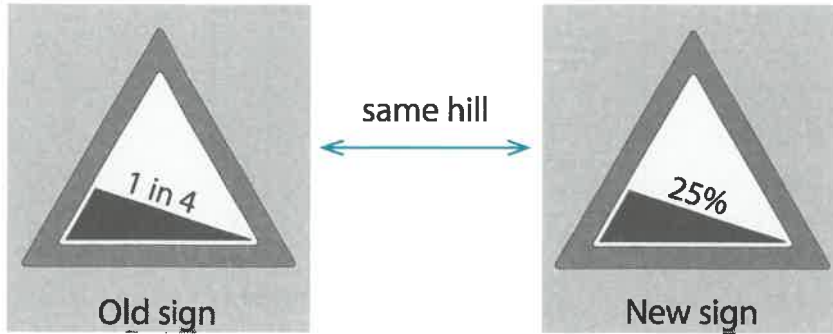
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kg.

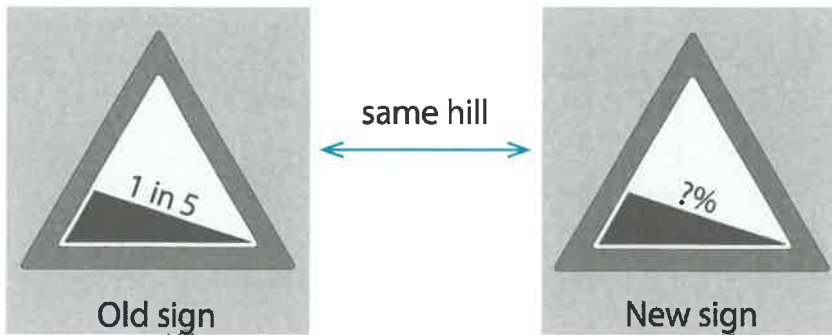


2m

13 These road signs show how steep hills are.

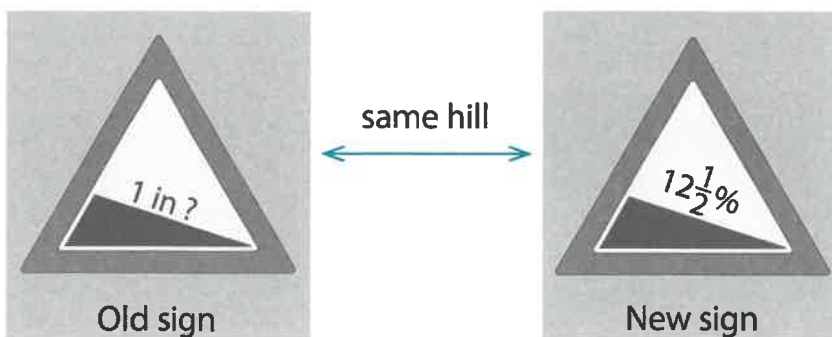


Write the missing information.

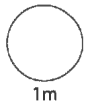


The new sign should show

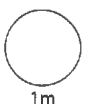
%



The old sign should show 1 in



1m



1m

TOTAL



7m

- 14 Write the number that is halfway between 0.61 and 0.62



Divide 3 by 0.2



- 15 $10^{12} \div 10^{10} =$



$14^2 = 196$ so $140^2 =$



- 16 The table shows information about 60 people in a shop.

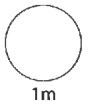
On a pie chart, what would the angles be?

	Frequency	Angle
Number of children	30	°
Number of adults (not staff)	20	°
Number of staff	10	°



20 Write 1.75 as an improper fraction.

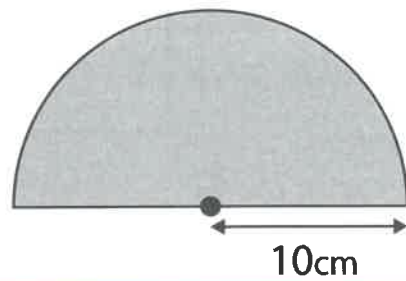
$$1.75 = \frac{\quad}{\quad}$$



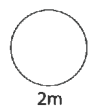
21 The radius of this semi-circle is 10cm.

What is the **area** of the semi-circle?

Use $\pi = 3.14$








- 22 The table shows the number of children in 80 families.

Number of children per family	Frequency
1	14
2	40
3	18
4	8
	Total 80

Work out the **mean** number of children in these families.



mean = children per family

○
2m

TOTAL
○
5m

