

# PROCEDURAL

## 9EP18

First name \_\_\_\_\_

Last name \_\_\_\_\_

School \_\_\_\_\_

Class \_\_\_\_\_

Date of birth ○○ ○○ ○○○○

Date of test ○○ ○○ 2018

Total score  (maximum 36)



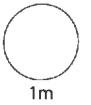
165131



Llywodraeth Cymru  
Welsh Government

1

$$360 - 30 \times 2 =$$



2



Costs of these books:

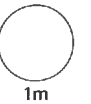
£ 9.99

£ 9.99

£14.99

**Estimate**, to the nearest £, the total cost.

£



3

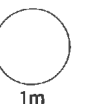
Elan compares the cost of a soft drink in different shops.

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 £?

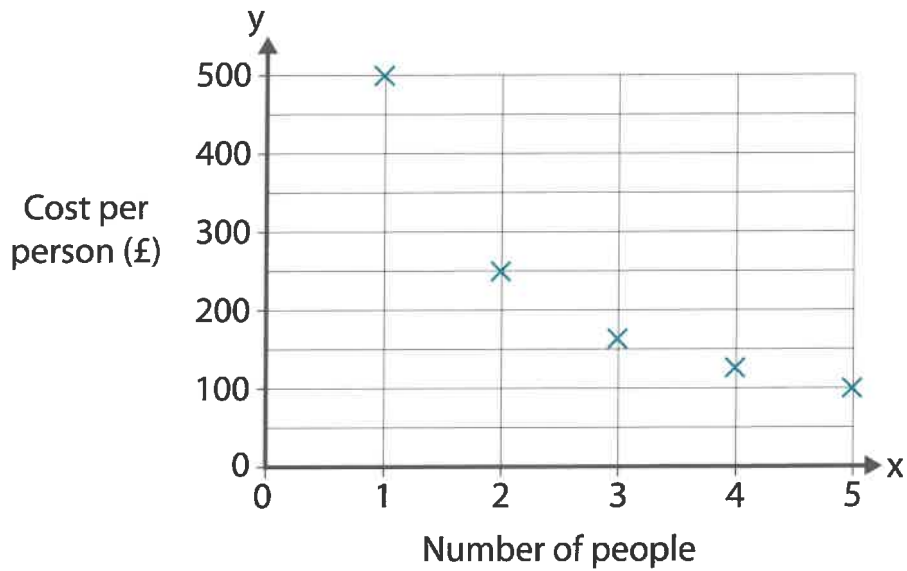


2m

TOTAL

7m

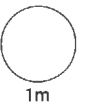
- 6 The graph shows how much it costs per person to rent a house for a week.



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?

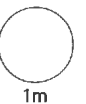
£ more per person



- 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 £100 000 of life insurance.

Age (years)	Payment <b>each month</b>
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.

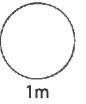
$3^3$

$2^4$

$5^2$

$3^2$

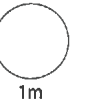
smallest			biggest



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



12 Black bears hibernate in the winter.

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

This black bear weighs 80kg.

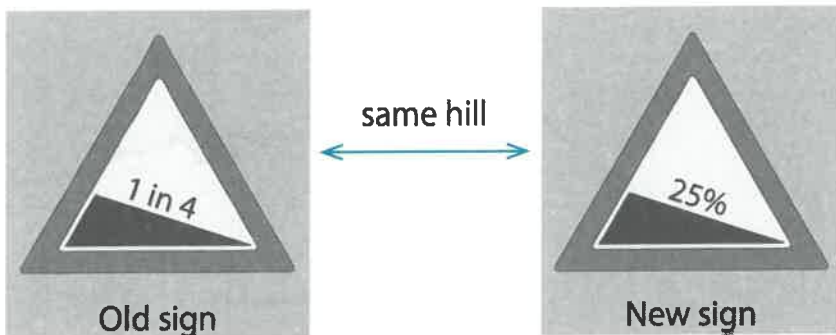
After hibernating its mass is likely to be



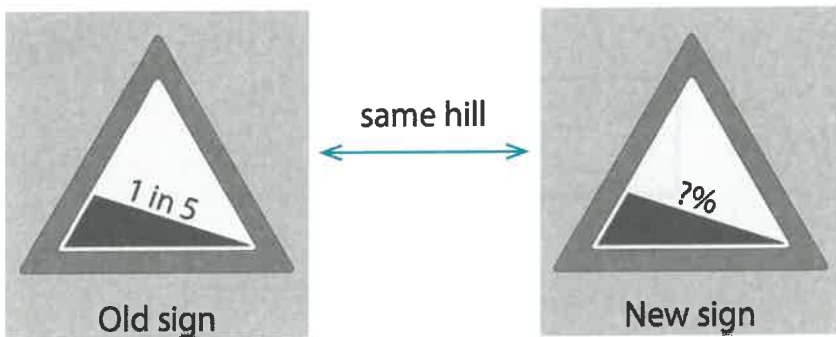
between  kg and  kg.



13 These road signs show how steep hills are.

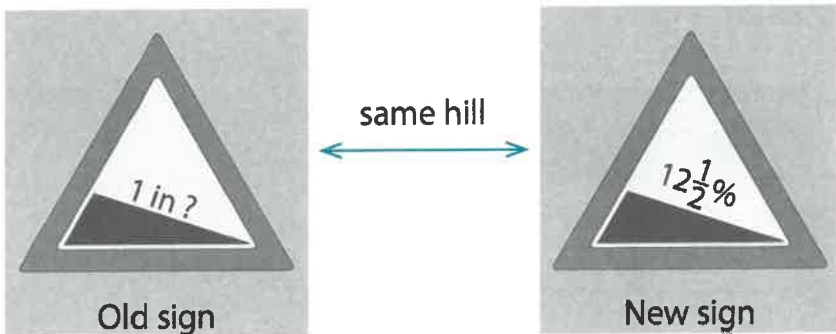


Write the missing information.



The new sign should show

%



The old sign should show 1 in



1m



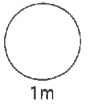
1m

TOTAL

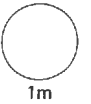


7m

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

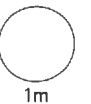


Divide 3 by 0.2

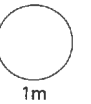


15

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



$$14^2 = 196 \text{ so } 140^2 =$$

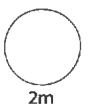


16

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	°

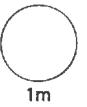






- 20 Write 1.75 as an improper fraction.

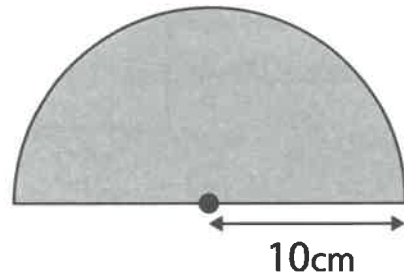
$$1.75 = \frac{\quad}{\quad}$$




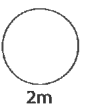
- 21 The radius of this semi-circle is 10cm.

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

