

National Numeracy Tests

PROCEDURAL

6EP17

First name _____

Last name _____

School _____

Class _____

Date of birth ○○ ○○ ○○○○

Date of test ○○ 05 2017

Total score (maximum 35)

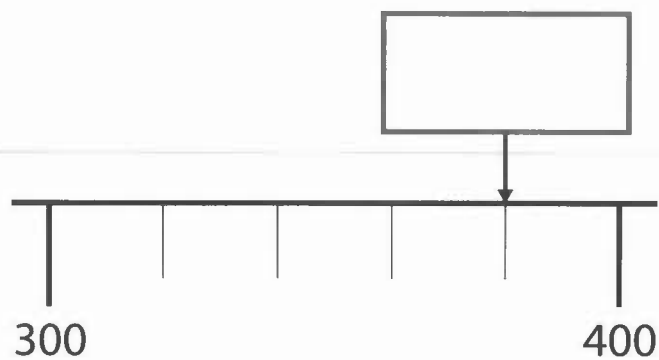


150279



Llywodraeth Cymru
Welsh Government

- 1 What number is the arrow pointing to?

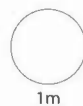


2

$$8 \times 7 =$$

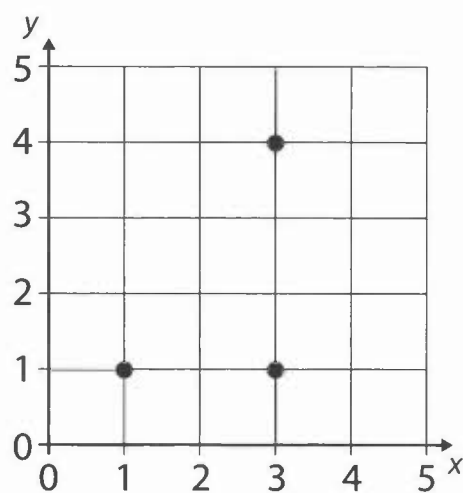
$$9 \times$$

$$= 54$$

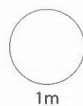


- 3 Four points join to make a rectangle.

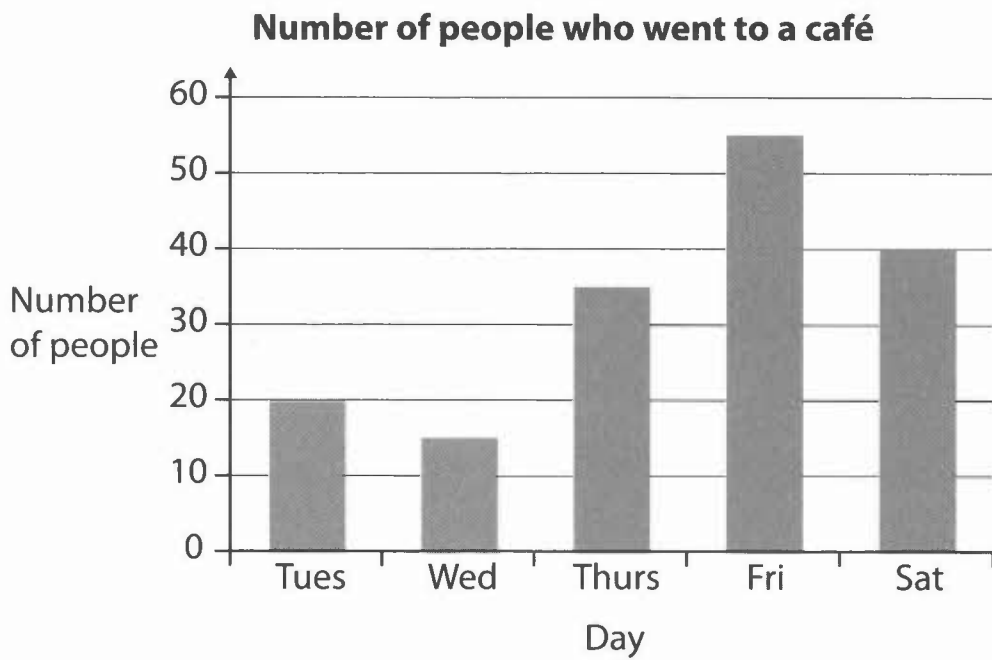
The diagram shows three of them.



Write the co-ordinates of the fourth point.

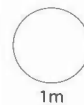


4



How many people went on **Friday**?

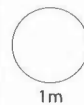
people



More people went on **Saturday** than went on **Wednesday**.

How many more?

more

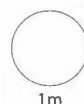


5

Write these numbers in figures:

eight thousand and twenty-one

half a million



TOTAL



- 6 Write symbols to complete the number sentence.

$$714 \times 139 = 99246$$

so

$$99246 \bigcirc 714 \bigcirc 139$$



- 7



Full price: £1.25

Special offer:
buy 4 for £4.25

How much **cheaper** is it to buy 4 using the special offer than 4 at full price?

 p


- 8

$$50\% \text{ of } 190 = \boxed{}$$

$$20\% \text{ of } \boxed{} = 8$$

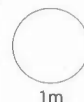


9 Average sea temperatures near the North Pole:

- summer temperature 10°C
- winter temperature -2°C



How much **colder** is the temperature in winter than in summer?

 $^{\circ}\text{C}$



10 Some children make cakes to sell.

Here are the costs of the ingredients:

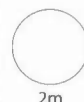
	Cost
flour	£1.50
butter	£4.50
eggs	£3.50
sugar	£1.50

They make 40 cakes and sell them all at 50p each.

How much **profit** do they make?



£



TOTAL



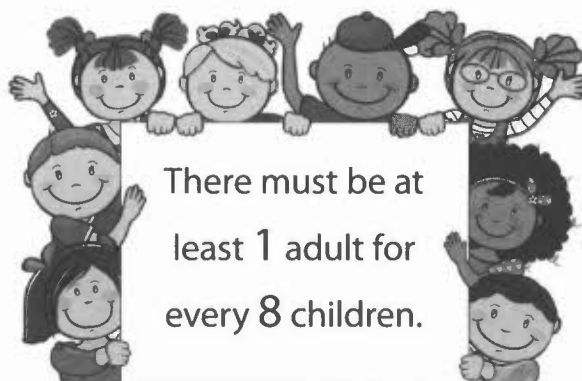
11 Flight from Belfast to Cardiff:

- leaves Belfast at 06:55
- arrives Cardiff at 08:10

How many minutes does the flight last?

 minutes

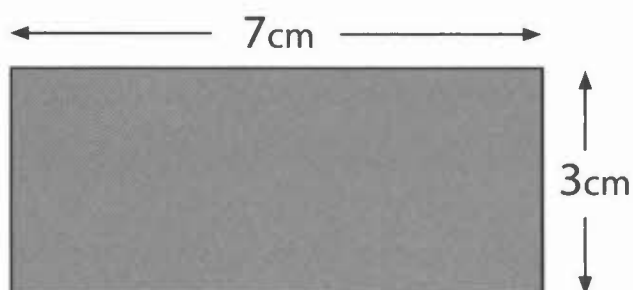

12 Rule at a nursery:



For 48 children, there must be at least adults.



13

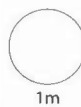


Area of the rectangle = cm²



14 Divide 360 by 20

Multiply 40 by 20



15 $\frac{2}{3}$ of 60 =

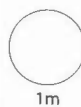
$\frac{4}{7}$ of 28 =



16 In each circle write < or > or = to compare the units.

50 metres 0.5 kilometres

50 metres 5000 centimetres



TOTAL



17

$$0.1 + 0.99 =$$



1m

18



Broccoli

£1.20 for 1 kilogram

What is the cost of **300 grams** of broccoli?

 p

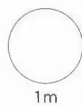

1m

19

If 1 kilometre equals $\frac{5}{8}$ mile, what do 3 kilometres equal?

Write your answer as a **mixed** number.

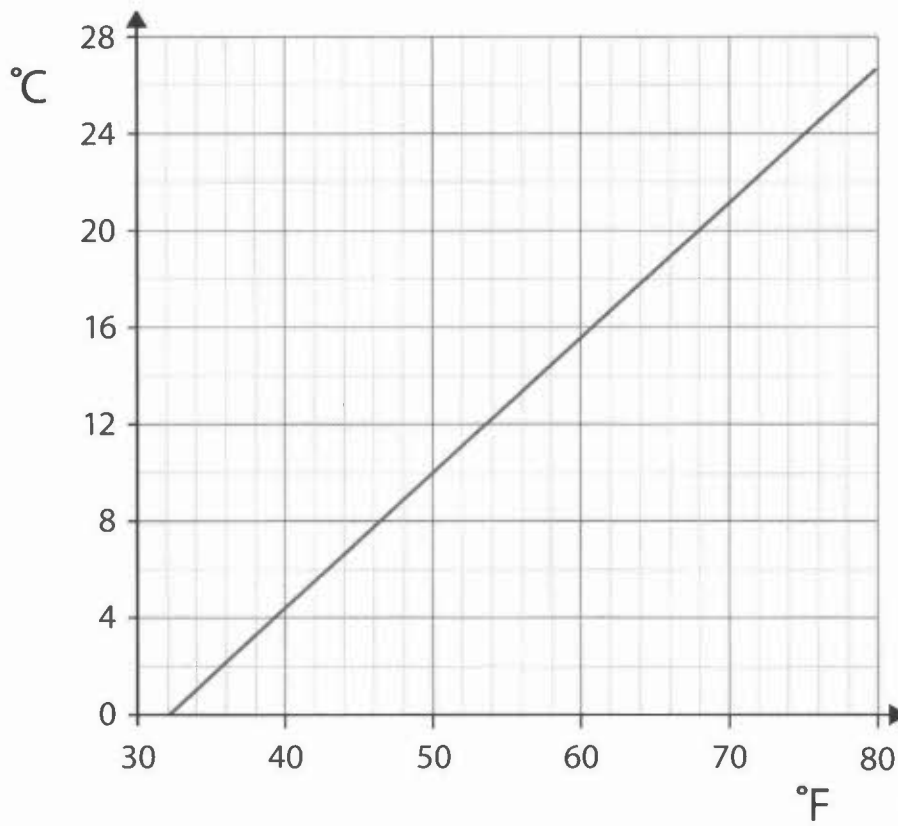
miles



1m

20

Conversion graph from °F to °C



The temperature rises from 50°F to 70°F.

By how many °C does it rise?

°C

2m

TOTAL

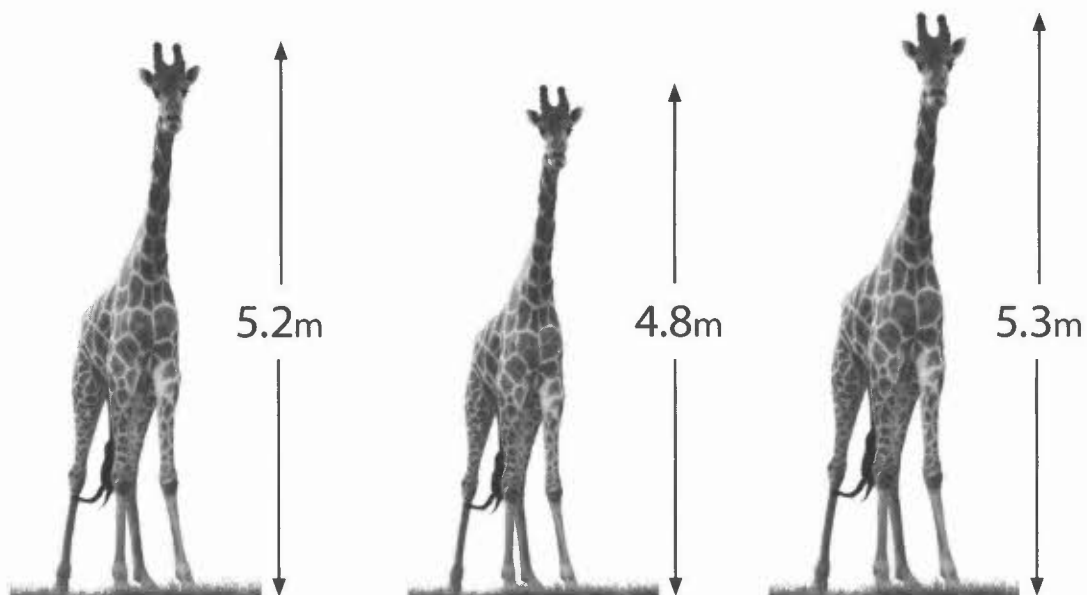
5m

21 How many 99's are in five thousand?


Give your answer to the **nearest ten**.



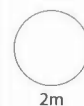
22



Work out the mean height of the three giraffes.



m

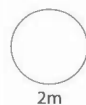


23 Here is a rule for a number sequence:

subtract 10 then divide by 2

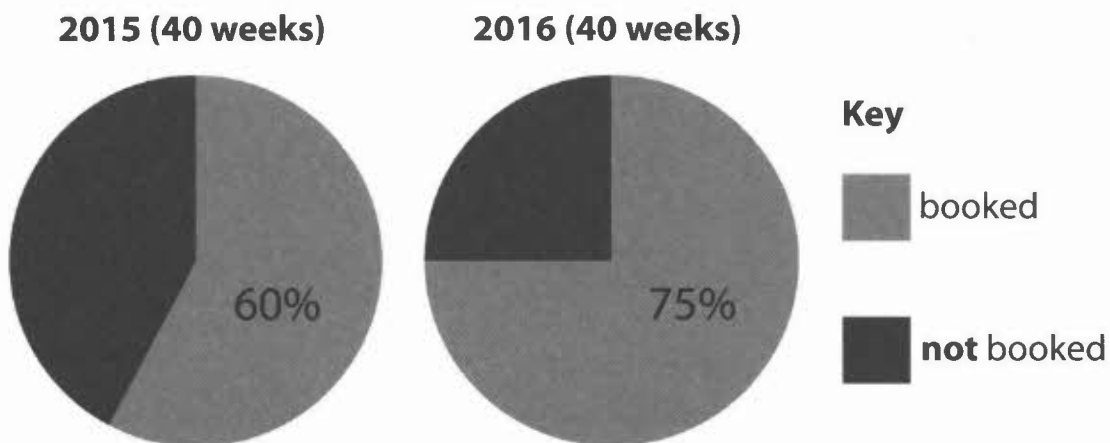
Write the two numbers that are missing from the sequence.

38
14
2



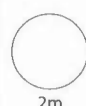
24 A holiday cottage is available for 40 weeks of the year.

The pie charts show how often it was booked.



How many **more** weeks were booked in 2016 than in 2015?

more weeks



TOTAL



National Numeracy Tests

PROCEDURAL

6EP17MS

Markscheme



150280



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6EP17 Procedural test: Markscheme

Q	Marks	Answer	Comments
1	1m	380	
2i	1m	56	
2ii	1m	6	
3	1m	(1 , 4)	
4i	1m	55 people	Accept 54 or 56
4ii	1m	25 more	Accept 24 or 26
5i	1m	8021	Do not accept in words
5ii	1m	500 000	Do not accept in words
6	1m	$99246 \div 714 = 139$ Or $99246 = 714 \times 139$	
7	1m	75p	
8i	1m	95	
8ii	1m	40	
9	1m	12°C	Do not accept -12°C
10	2m Or 1m	£9 Shows 11 (total cost in £) Or Shows 20 (sales in £) Or Their incorrect total cost correctly subtracted from £20 Or 11 correctly subtracted from their incorrect sales	Example: $1.50 + 4.50 + 3.50 + 1.50 = \text{£}12$ (error), Answer £8 Example: $40 \times 50\text{p} = \text{£}25$ (error), Answer £14

Q	Marks	Answer	Comments
11	1m	75 minutes	Accept 1 hour 15 minutes
12	1m	6	
13	1m	21cm ²	
14i	1m	18	
14ii	1m	800	
15i	1m	40	
15ii	1m	16	
16	1m	50 metres (<) 0.5 kilometres 50 metres (=) 5000 centimetres	Both required for the mark
17	1m	1.09	Accept equivalent fractions and decimals
18	1m	36p	
19	1m	1 $\frac{7}{8}$ miles	Accept equivalent fractions for $\frac{7}{8}$ but do not accept $\frac{15}{8}$
20	2m	11°C	Accept 10.6°C to 11.4°C inclusive
	Or 1m	Shows 10 Or Shows 21	Accept 9.8 to 10.2 inclusive Accept 20.8 to 21.2 inclusive

Q	Marks	Answer	Comments
21	1m	50	
22	2m	5.1m or equivalent	
	Or 1m	Shows 15.3 or equivalent Or Incorrect answer, but shows the intent to add 5.2, 4.8 and 5.3 then divide that answer by 3 Or Incorrect answer, but shows a method that would lead to 5.1m if calculated correctly, with not more than one numerical error	Accept 1530 (cm) Example of a correct method: $5.2 - 5 = 0.2$ $4.8 - 5 = -0.2$ $5.3 - 5 = 0.3$ $0.2 + -0.2 + 0.3 = 0.6$ (error) $0.6 \div 3 = 0.2$ $\text{mean} = 5 + 0.2 = 5.2$
23	2m	86 38 14 2 -4	Both required for 2 marks
	Or 1m	Shows 86 Or Shows -4	
24	2m	6 more weeks	
	Or 1m	Shows 15% Or Shows 30 Or Shows 24	