National Numeracy Tests

PROCEDURAL

8EP15

First name _____

Last name _____

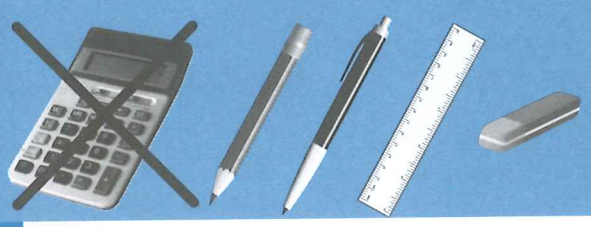
School _____

Class _____

Date of birth ◯◯ ◯◯ ◯◯◯◯

Date of test ◯◯ ◯◯ 2015

Total score ☐ (maximum 36)



Llywodraeth Cymru
Welsh Government

1 $8 \times 4 \div (4 \times 2) =$ ☐

1m

2

Work out the greatest number of books you can buy with £45

☐ books

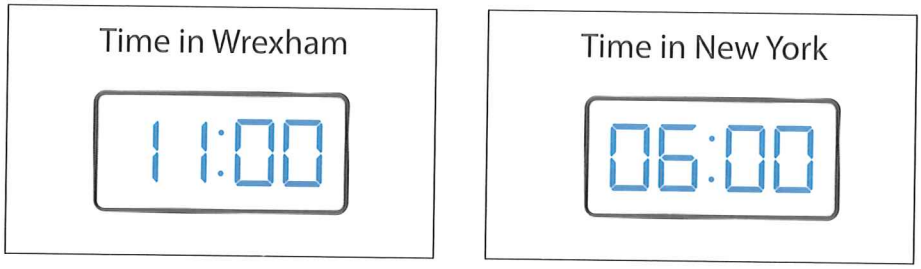
1m

3 Find 25% of £36

£ ☐

1m

4



Later that day it is 14:30 in Wrexham.

What time is it in New York?

☐ : ☐

1m

5 Complete the table.

	Greater than $\frac{1}{2}$	Less than $\frac{1}{2}$
3	✓	
0.09		
$\frac{2}{3}$		
0.28		

1m

6 0.7 km = ☐ metres

1m

7 14 × 11 = ☐

1m

8 **Subtract** 0.09 from 0.1

☐

1m

TOTAL

8m

9 Complete the three boxes on this invoice.

☐ hours at £35 for each hour: total cost	£280	
plus tax at 20% of the total cost		£ ☐
Grand total		£ ☐

1m

1m

10 Work out how many thirds there are in $4\frac{1}{3}$

☐

1m

11 A 250g block of cheese costs £1.80

How much is that per 100g?

☐

2m

12 $1.24 + 1.25 + 1.26 =$ ☐

1m

13

Menu	
Eggs on toast	£2.49
Curry with rice	£6.95
Fish stew	£6.99

2 people order eggs on toast, 3 people order curry with rice and 1 person orders fish stew.

Estimate the total cost, to the nearest £.

£ ☐

1m

14 $90 \times$ ☐ $= 0.9$

1m

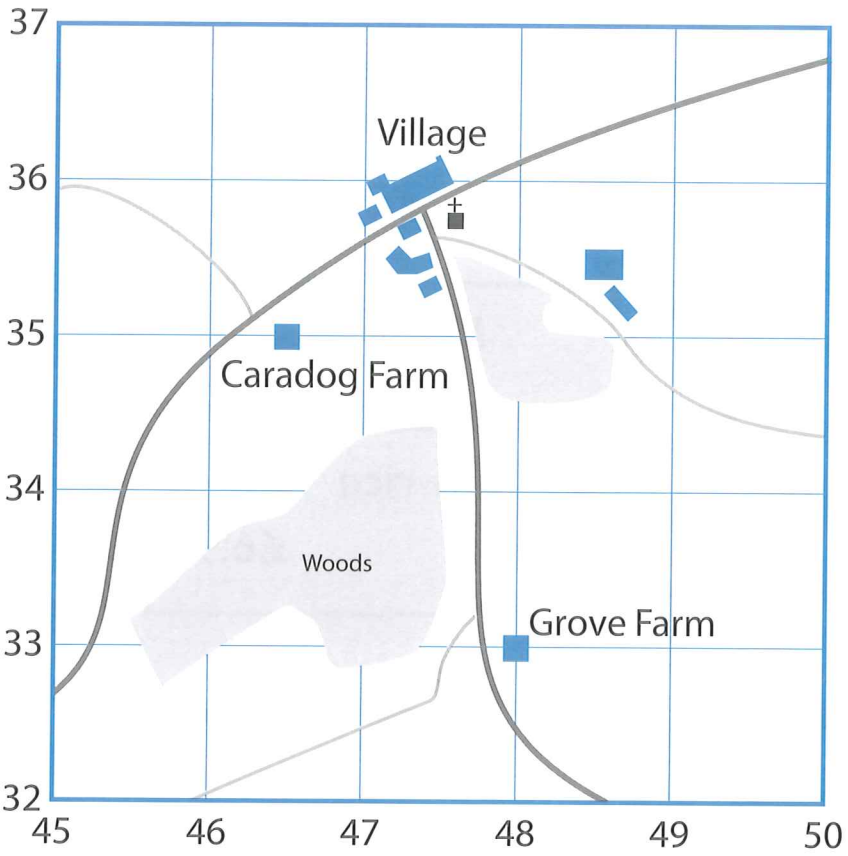
15 Round 777 777 to **three** significant figures.

☐

1m

TOTAL 9m

16

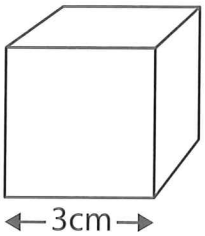


The six-figure grid reference for Grove Farm is 480330

Write a six-figure grid reference for Caradog Farm.

1m

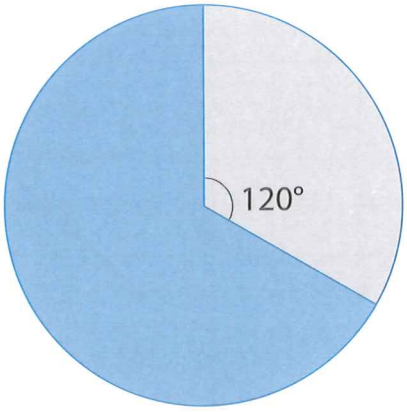
17 Work out the **volume** of the cube.



cm^3

1m

18 **Pie chart to show the proportion of cats and dogs in a rescue centre**



The ratio of **cats** to **dogs** is 1 :

The ratio of **dogs** to **cats** is 1 :

1m

1m

19 Work out $5^3 - 5^2$

2m

20 Circle the fraction that is nearest in value to 0.6

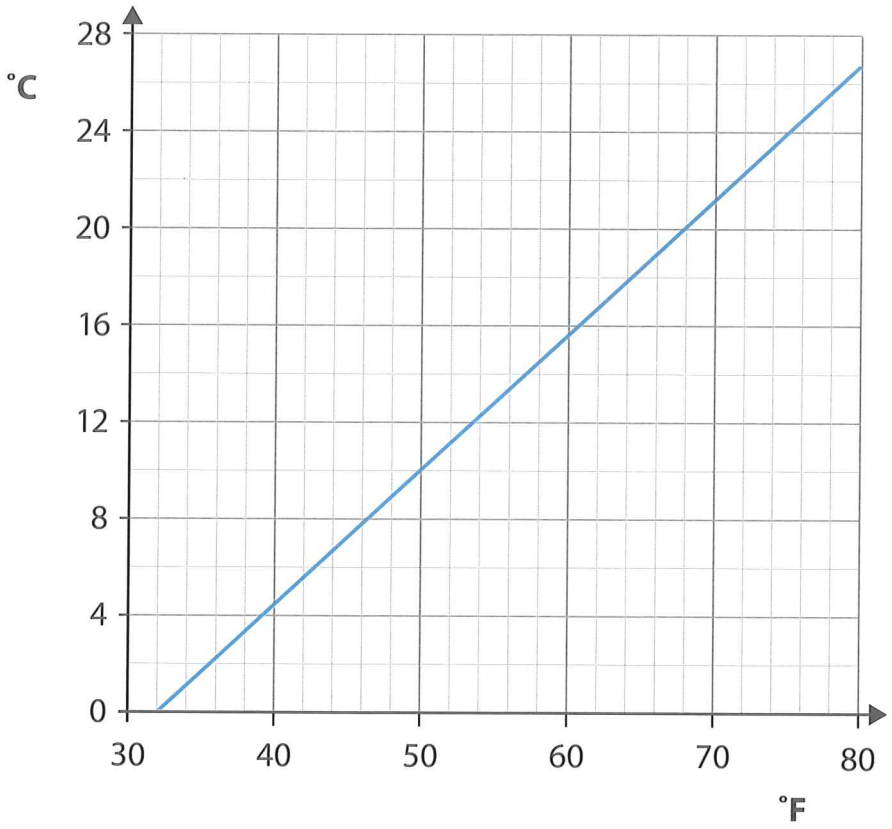
$\frac{3}{6}$ $\frac{2}{5}$ $\frac{11}{20}$ $\frac{7}{10}$

1m

TOTAL

7m

21 **Changing between °F and °C**



13°C = ☐ °F

1m

When the temperature goes up by 25°F,
what does it go up by in °C?

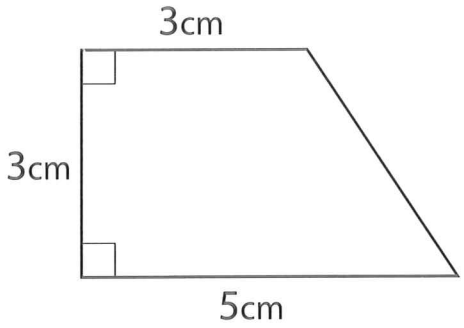
☐ °C

1m

22 The **reciprocal** of $\frac{2}{5}$ is ☐

1m

23 Work out the area of this shape.



cm²

2m

24

Original price £3000

Price reduced by ■ %

Now only £1200

Circle the percentage below that shows how much the price has been reduced.

18% 40% 42% 60% 75%

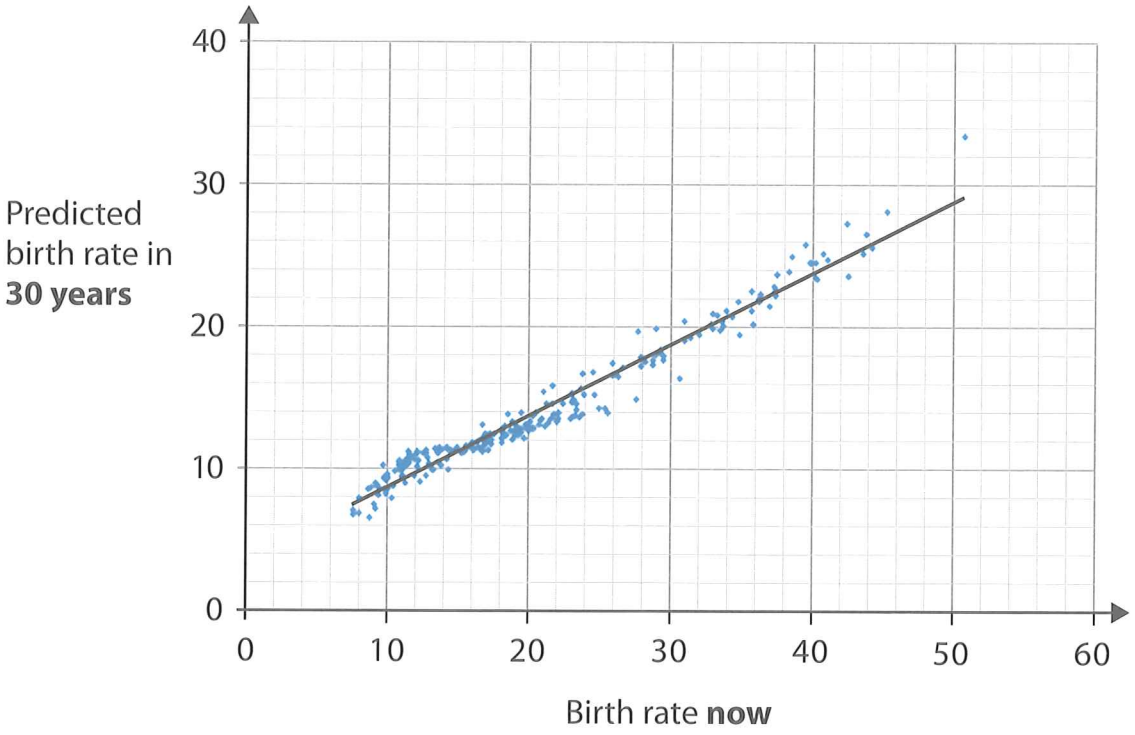
1m

TOTAL

6m

25

Scatter graph showing yearly birth rates per 1000 people in countries across the world



What type of correlation does the scatter graph show?

1m

The birth rate now in a different country is 45

Use the line of best fit to predict its birth rate in 30 years.

1m

26 How many litres is 6 pints?

4 pints = 2.27 litres

litres

2m

27

Questionnaire in a restaurant

How good was the service?

1 (excellent) **2** (good) **3** (satisfactory) **4** (poor)

20 people answered the questionnaire.

3 people gave a score of 1 and 9 people gave a score of 2

Everyone else gave a score of 3

What is the **mean** score?

2m

TOTAL

6m

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