National Numeracy Tests

PROCEDURAL

9EP16

First name _____

Last name _____

School _____

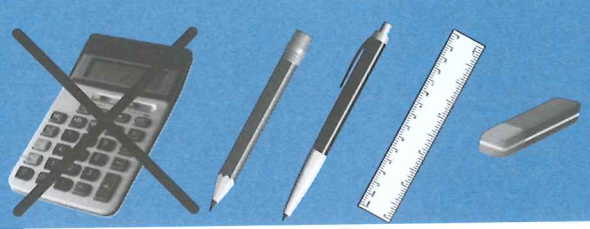
Class _____

Date of birth ◯◯ ◯◯ ◯◯◯◯

Date of test ◯◯ ◯◯ 2016

Total score ◯ (maximum 36)

139108



Llywodraeth Cymru
Welsh Government

1

$2 \times 1\frac{1}{2} =$ ☐

1m

Half of $1\frac{1}{2} =$ ☐

1m

2 **Estimate** the total cost of these DVDs, to the nearest £.

£ ☐

1m

3

$10 \times (5.9 + \square) = 100$

1m

4 Ahmed has:

- 25 ten-euro banknotes, and
- 15 five-euro banknotes.

How many euros does he have altogether?

euros

1m

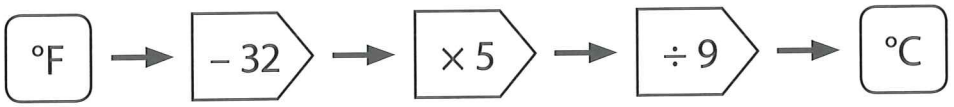
5 5% of 120 =

1m

90% of 300 =

1m

6 This formula converts °F to °C.



Use the formula to convert 50°F to °C.

°C

1m

TOTAL

8m

7 Round 6868 to **2 significant figures.**

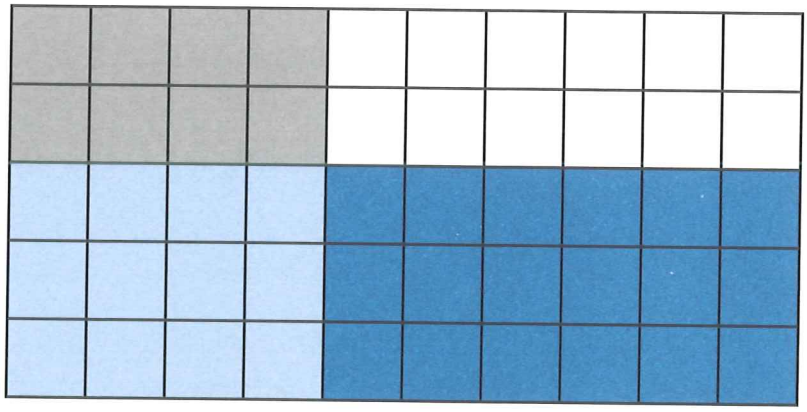
1m

8 $10^2 \times$ ☐ $= 2000$

1m

9 Four pupils want to be their school representative.

The grid shows the proportion of votes for each person.



Key: Votes for

- Kate (Year 8)
- Guto (Year 8)
- Beti (Year 9)
- Tony (Year 9)

What **fraction** of votes is for **Kate**?

Write your answer in its simplest form.

1m

What **percentage** of votes is for pupils in Year 9?

%

1m

10 A map has a scale of 1 : 5000

How many metres does 1 centimetre on the map represent?

metres

1m

11 Increase £72 by 25%.

£

1m

12 Write the missing number.

Inches		Centimetres
1	=	2.54
1.5	=	

1m

13 $1\frac{1}{20}$ kilograms = grams

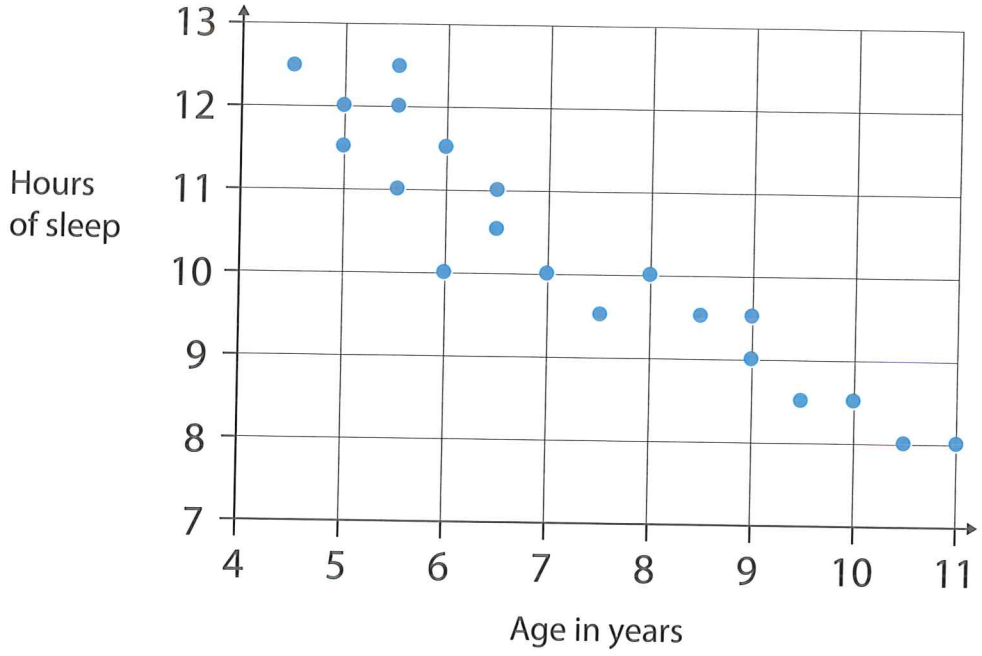
1m

TOTAL

8m

14

How much sleep 20 children had last night



How many of the 20 children slept for **less than** 12 hours?

children

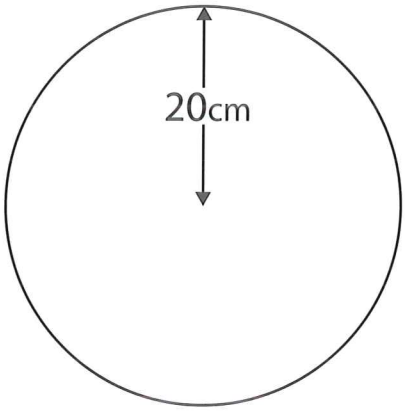
1m

What type of correlation does the scatter diagram show?

1m

15 Work out the area of the circle.

Use $\pi = 3.14$



$\square$ cm^2

2m

16

$200 - 2 \times 5^2 =$ $\square$

1m

$(0.1)^2 =$ $\square$

1m

$10^3 \div (8^2 + 6^2) =$ $\square$

1m

TOTAL

7m

17 The table shows how many pupils got each grade in a test.

	Top grade (3 points)	Middle grade (2 points)	Lowest grade (1 point)
Number of pupils	25	65	10

Work out the **mean** number of points for the test.

2m

18

179 Japanese Yen = £1

Which calculation below gives the number of £ in 1000 Japanese Yen?

Circle your answer.

1000 + 179 　　179 × 1000 　　179 ÷ 1000 　　1000 ÷ 179

1m

19 Nadia wants to drive her caravan from her home to Fishguard.

Here is her plan:

Number of miles on the motorway (average speed 60mph)	Number of miles not on the motorway (average speed 30mph)
150	60

At those speeds, how long will her journey take?

hours

1m

20

Bank:

Save £6000 in one year and get 3% interest paid into your account at the end of the year, less a fee of £2 per month.

Eleri puts £6000 into her account at the beginning of the year.

How much does the bank pay into her account at the end of the year?

£

2m

TOTAL

6m

21 $\frac{1}{12} = 0.0833333\ldots$ which is a recurring decimal.

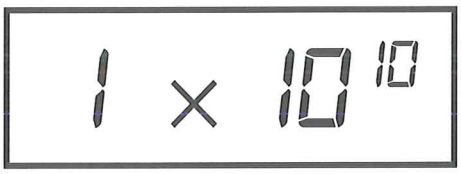
Circle the fractions below that do **not** convert to recurring decimals.

$\frac{2}{12}$ $\frac{3}{12}$ $\frac{4}{12}$ $\frac{5}{12}$ $\frac{6}{12}$

$\frac{7}{12}$ $\frac{8}{12}$ $\frac{9}{12}$ $\frac{10}{12}$ $\frac{11}{12}$

2m

22 A calculator shows the answer to a question.



How many million is that?

million

1m

23 A data set of **ten** numbers has a mean of 7

One more number is added; its value is 18

What is the mean of this bigger data set?

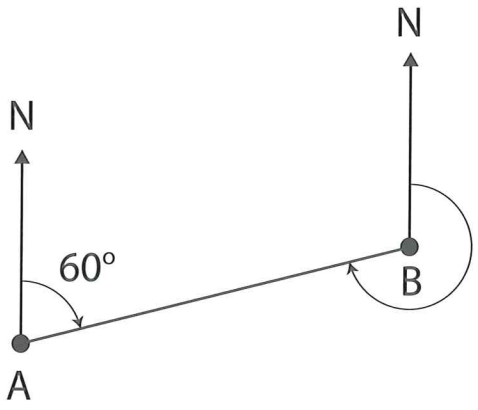
1m

24 Write the fraction that is exactly halfway between 0.72 and $\frac{4}{5}$

Write the fraction in its simplest form.

2m

25 The bearing of B from A is 060°



Not drawn accurately

What is the bearing of A from B?

°

1m

TOTAL

7m

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