

# NUMERACY

First name ANSWERS

Last name 30 minute test

School NON - Calculator

Class \_\_\_\_\_

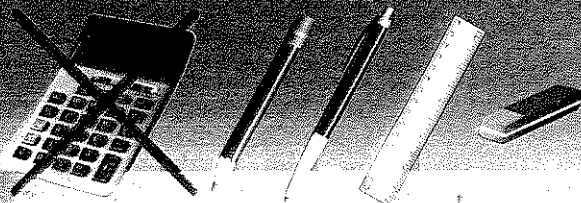
Date of birth ○○ ○○ ○○○○

Date of test ○○ ○ 5 2 0 1 3

Total score  (maximum 36)



National Numeracy Tests



Llywodraeth Cymru  
Welsh Government

1

4.6

+ 5.4 = 10

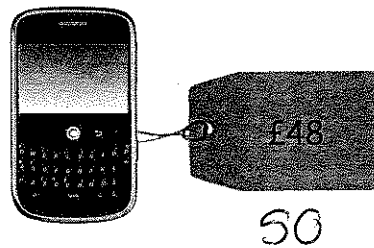
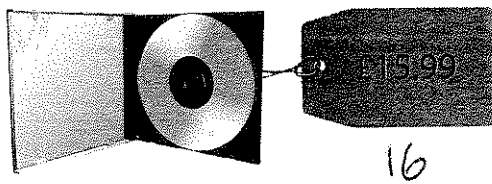
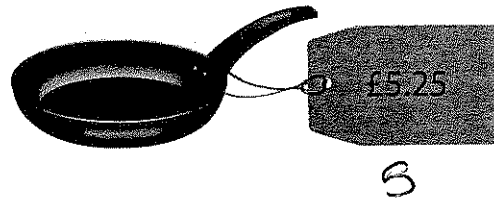
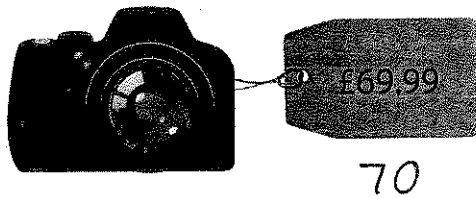
1m

322

+ 678 = 1000

1m

2



Estimate the total cost.

Accept any answer between 137-141

70  
50  
16  
5  

---

141

£ 141

1m

3

Work out  $\frac{3}{10}$  of 70

$70 \div 10 \times 3$

21

1m

4

$$7 \times 0.9 = \boxed{6.3}$$

1m

$$4.8 \div 6 = \boxed{0.8}$$

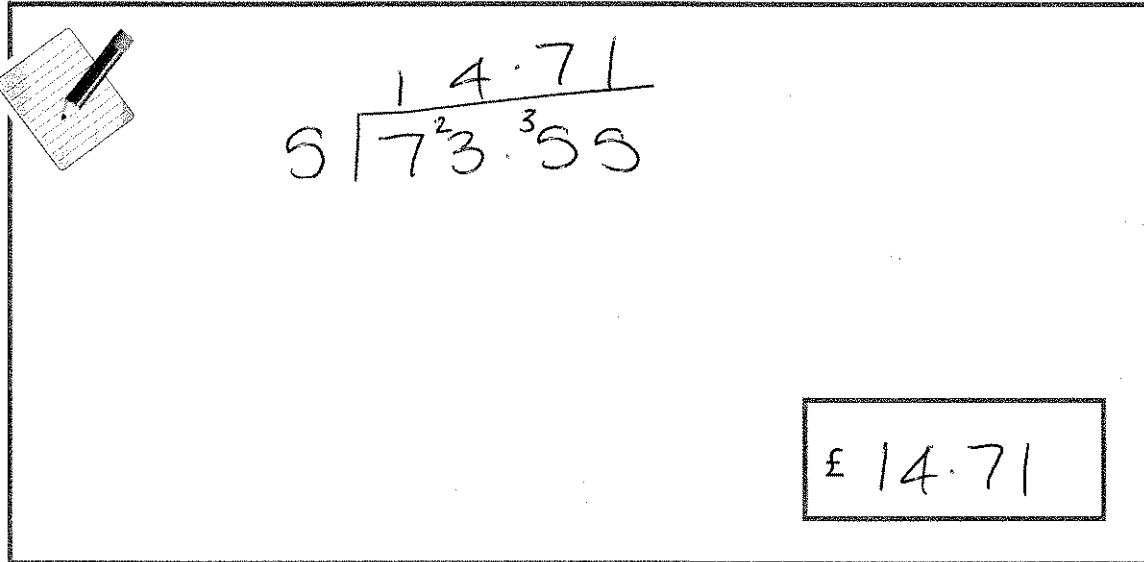
1m

5

The bill for 5 people at a restaurant is £73.55

They want to divide it equally.

How much for each person?



Handwritten long division:

$$\begin{array}{r}
 14.71 \\
 5 \overline{) 73.55} \\
 \underline{50} \phantom{.55} \\
 23 \phantom{.55} \\
 \underline{20} \phantom{.55} \\
 35 \\
 \underline{35} \\
 0
 \end{array}$$

Final answer in a box: £ 14.71

2m

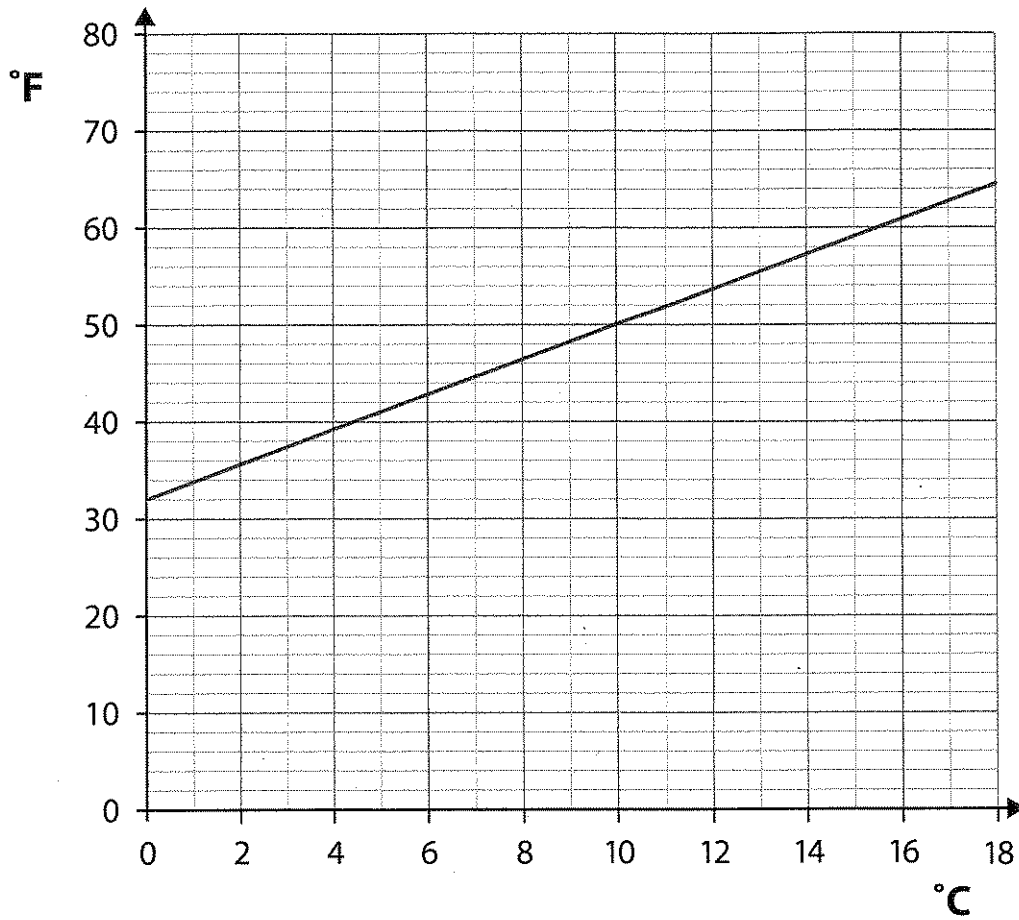
1 mark for £14. --  
 or  
 £13.71  
 or  
 £15.71

3

TOTAL  
3m

6

### Changing between °C and °F



$10^{\circ}\text{C} =$    $^{\circ}\text{F}$

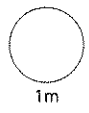
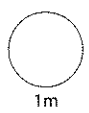
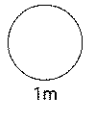
$48^{\circ}\text{F} =$    $^{\circ}\text{C}$

Estimate  $21^{\circ}\text{C}$  in  $^{\circ}\text{F}$ .

Any answer  
69-70.9

$^{\circ}\text{F}$

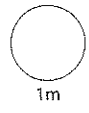
$$\begin{array}{r} 18^{\circ}\text{C} = 64^{\circ}\text{F} \\ 3^{\circ}\text{C} = 6^{\circ}\text{F} \\ \hline 21^{\circ}\text{C} \quad 70^{\circ}\text{F} \end{array}$$




7

$2^5 =$

$2 \times 2 \times 2 \times 2 \times 2$



8 Work out  $151 \times 27$



$$\begin{array}{r} 151 \\ \times 27 \\ \hline 1057 \\ + 3020 \\ \hline 4077 \end{array}$$

or

$$\begin{array}{r|l} \times & 100 \quad 50 \quad 1 \\ 20 & 2000 \quad 1000 \quad 20 \\ 7 & 700 \quad 350 \quad 7 \\ \hline & = \end{array}$$

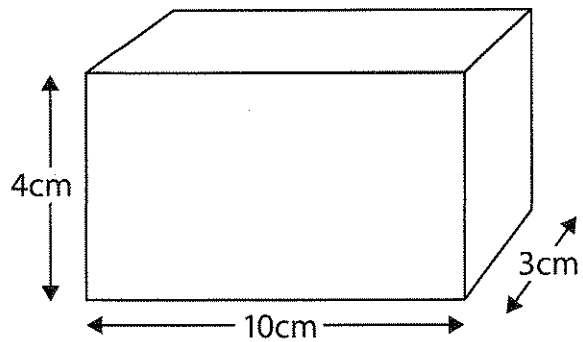
**4077**

2m

(1 mark for no more than 1 error)

9 Work out the **volume** of the cuboid.

$$4 \times 10 \times 3$$



**120 cm<sup>3</sup>**

1m

10 20 pens cost £3.60

How much do 4 pens cost?

$$3.60 \div 5 = 18p \text{ per pen}$$

$$18 \times 4 = 72p$$

**72p**

(or £0.72)

1m

TOTAL

8m

11

7 + (3 × 4) = 19

Bidmas


1m

15 - (8 + 9) = -2

1m

12 Carrots cost 8.5p per 100g.

What is the cost of 2kg of carrots?



8.5 × 20

£ 1.70

2m

1 mark for 1kg = 85p

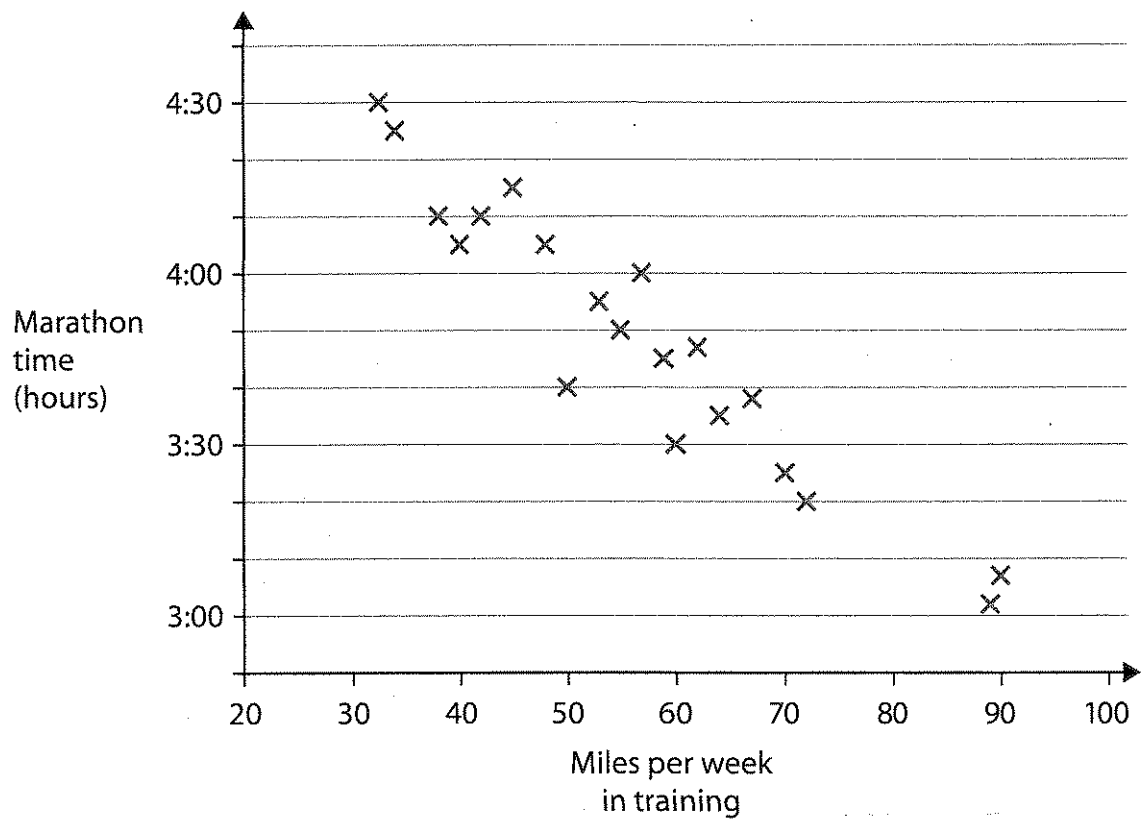
13

50.2 - 3.09 = 47.11

1m

$$\begin{array}{r}
 49 \quad 11 \\
 50.20 \\
 - 3.09 \\
 \hline
 47.11
 \end{array}$$

### Scatter graph about members of the running club



Another runner in the club ran **80** miles per week in training.

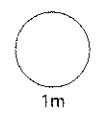
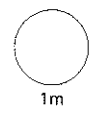
Use the graph to estimate this runner's marathon time.

*Accept anything  
between 3.05 - 3.25*

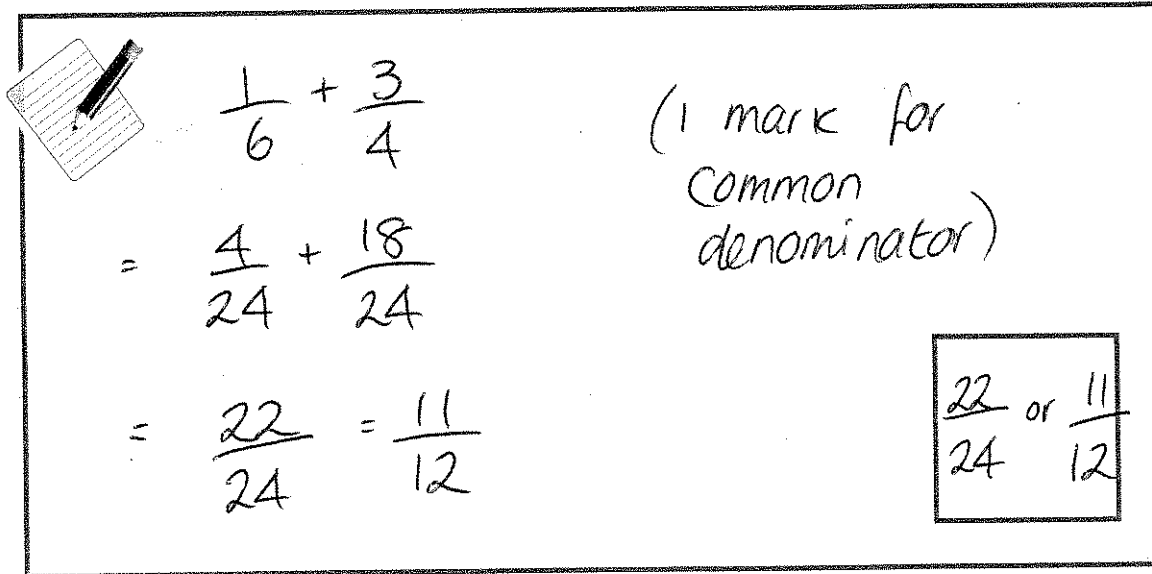
**3 : 10**


What type of **correlation** does the scatter graph show?

**Negative**



15 Work out  $\frac{1}{6} + \frac{3}{4}$



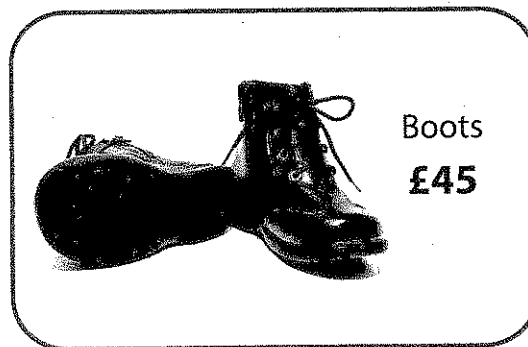
  $\frac{1}{6} + \frac{3}{4}$   
 $= \frac{4}{24} + \frac{18}{24}$   
 $= \frac{22}{24} = \frac{11}{12}$

(1 mark for common denominator)

$\frac{22}{24}$  or  $\frac{11}{12}$

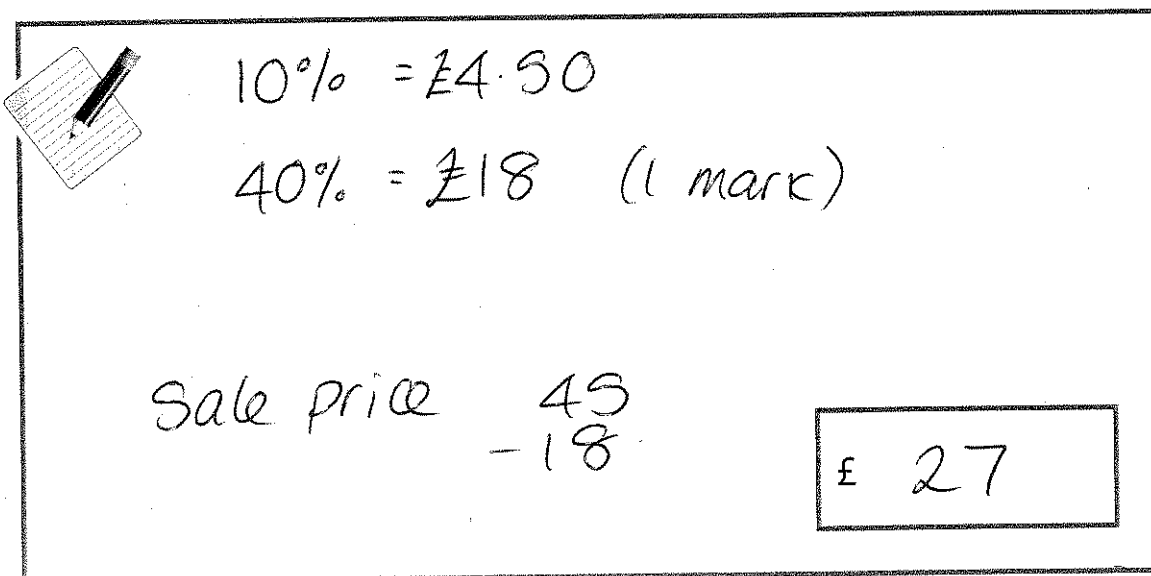
2m


16



This price is **reduced** by 40% in the sale.

What is the sale price of the boots?



  $10\% = £4.50$   
 $40\% = £18$  (1 mark)

Sale price    45  
                  - 18

£ 27

2m



17

$2\frac{1}{2}$  km = 250,000cm


$2.5 \times 100 \times 1000$

1m

18

Joe and Gwen share £840 in the ratio 3 : 4

How much do they get?



$840 \div 7 = \pounds 120$  (1 mark)

$120 \times 3 = 360$   
 $120 \times 4 = 480$

840
↑
check

Joe gets

£ 360

Gwen gets

£ 480

2m

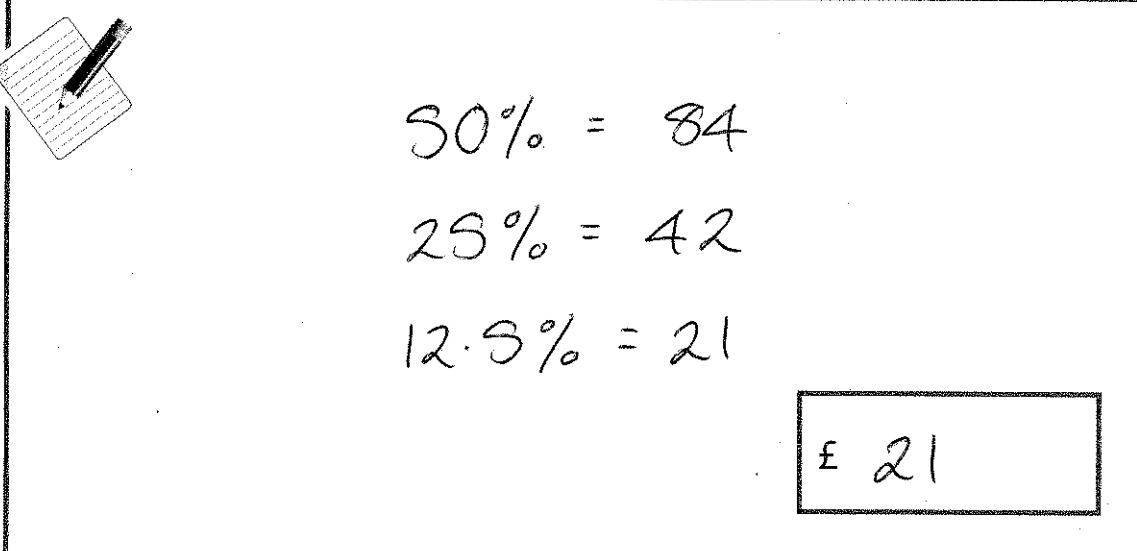
19

Round 475 604 to **two** significant figures.

$480,000$

1m

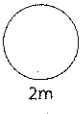
20 Calculate 12.5% of £168



30% = 84  
25% = 42  
12.5% = 21

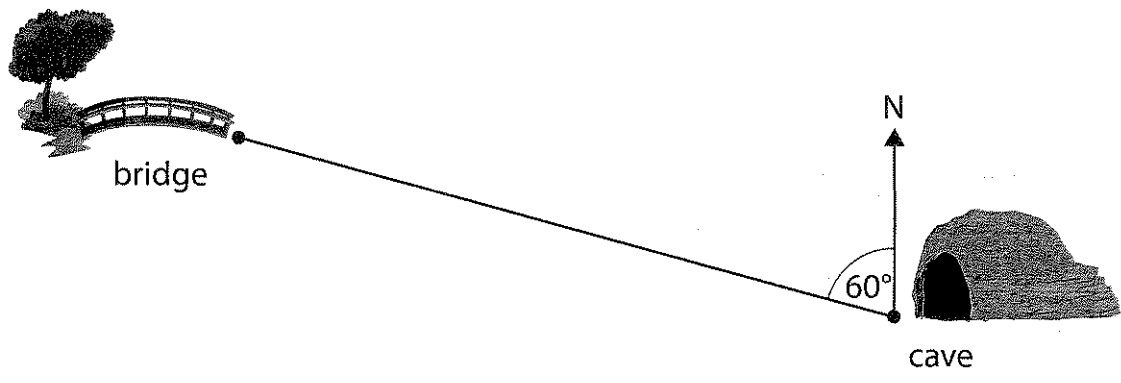
£ 21

The calculations are written in a box with a notepad icon in the top left corner. The final answer '£ 21' is enclosed in a separate box.

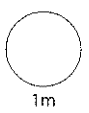


(1 mark if only one error made)

21 Neelam is at the cave.  
On what **bearing** must she walk to get to the bridge?



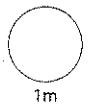
300°



Books read over the holiday	Number of pupils
0-2	1
3-5	8
6-8	2
9-11	7
12-14	5
Total:	<b>23</b>

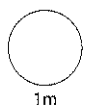
What is the **modal** class?

3-5



What is the **median** class?

9-11



TOTAL



