

Q1. This is what it costs to visit a castle.

Allington Castle Cost per person	
Adults	£2.45
Children (11 and over)	£1.30
Children (under 11)	95p

Helen is 10 years 9 months old.

How much will it cost Helen to visit?

1

mark

On one day the number of visitors was

Adults	4
Children (11 and over)	16
Children (under 11)	12

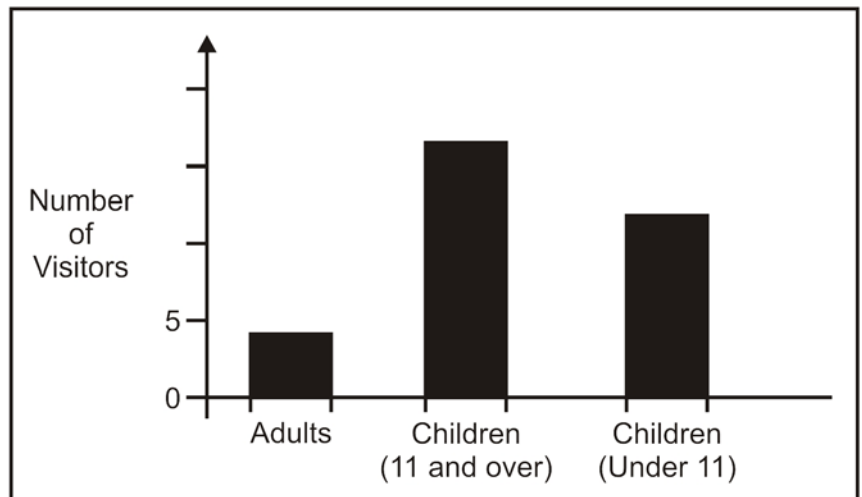
Here is a graph to show the number of visitors.

Complete the scale for the axis called "Number of Visitors".

1 mark

How much will it cost for **18 children** (under 11) to visit the castle?

You **must** show your working.



Show your method

1 mark

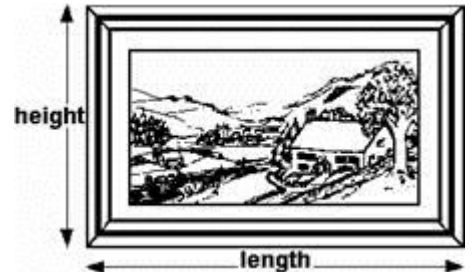
Q2. This calculation has the same number missing from each box. Write the missing number in the boxes.

$$\square \times \square - \square = 42$$

1 mark

Q3. Here are some picture frame sizes.

height in cm	10	12	14	16
length in cm	16	20	24	28



For each frame, the length is **twice** the height, **subtract 4**

What is the **length** of a frame which has a **height** of **36 cm**?

Show your method

2 marks

For each frame, the length (**L**) is **twice** the height (**H**), **subtract 4**

Write this in symbols.

L =

2 marks

A **new** frame has its length **twice** its height.

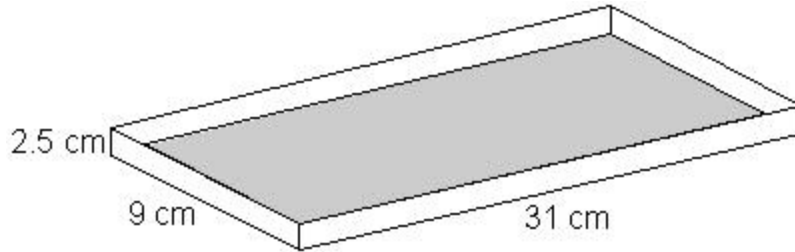
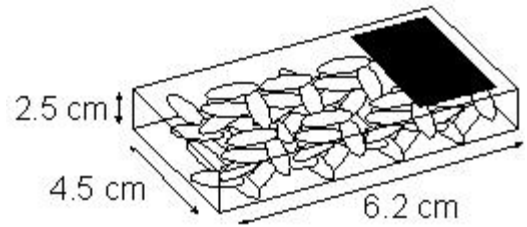
It is made with 126cm of wood. What is the **length** of this frame?

Show your method

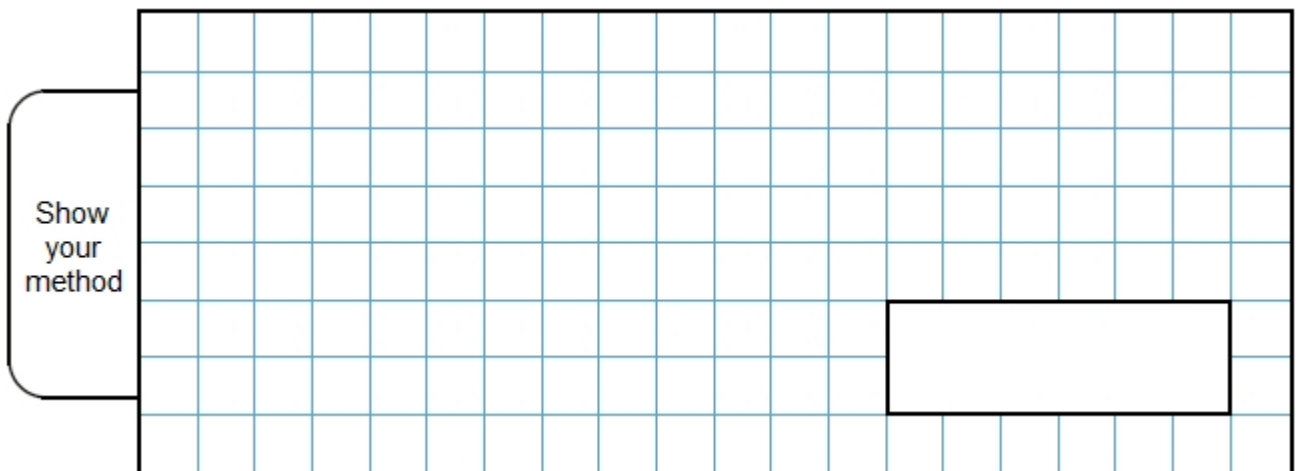
2 marks

Q4. Boxes measure 2.5 cm by 4.5 cm by 6.2 cm.

The shopkeeper puts them in a tray.



Work out the **largest** number of boxes which can lie flat in the tray.

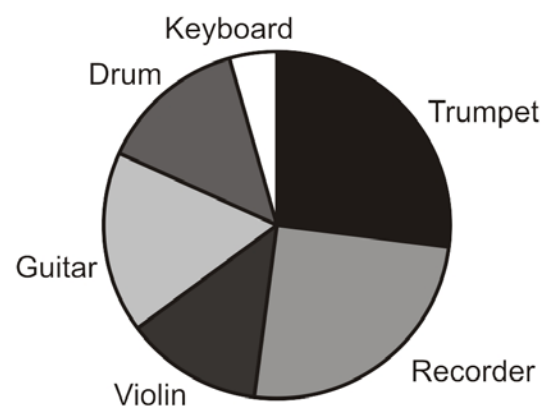


2 marks

Q5.

The Year 6 children in a school were asked to choose a musical instrument.

This is a pie chart of their choices.



Estimate what **fraction** of the children chose a **drum**.

1 mark

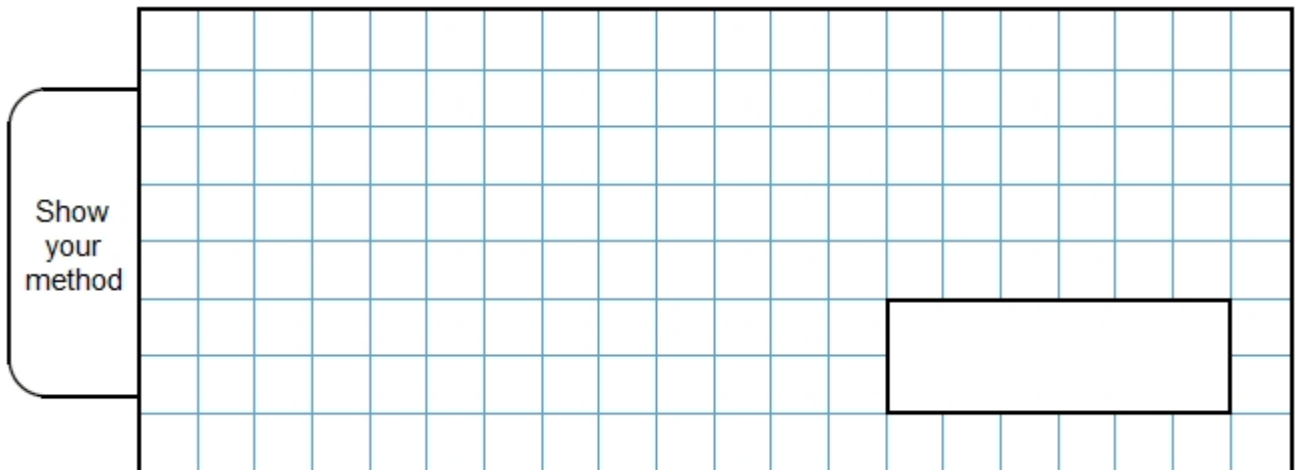
There are **80** children in Year 6. Estimate the number of children who chose a **violin**.

1 mark

15% of the 80 children chose a **guitar**.

How many children is this?

Show your method



2 marks

Q6. Write in the missing digit.

$$\square 92 \div 14 = 28$$

1 mark

Q7. Write in the missing digits.

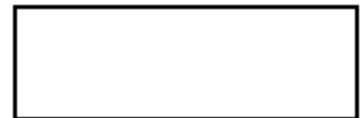
$$323 \times \square 7 = 1518 \square$$

1 mark

Q8. 427 children visit a castle.

They go in groups of 15. One group has less than 15.
Every group of children has **one** adult with them.

How many **adults** will need to go?

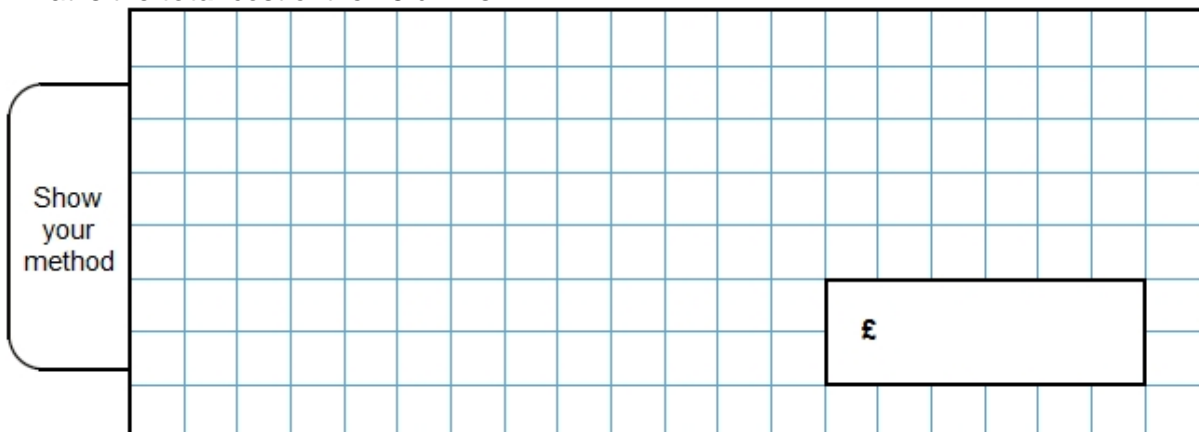


1 mark

Mr Todd buys **7 drinks** at **48p** each and **8 drinks** at **52p** each.

What is the **total** cost of the 15 drinks?

Show your method

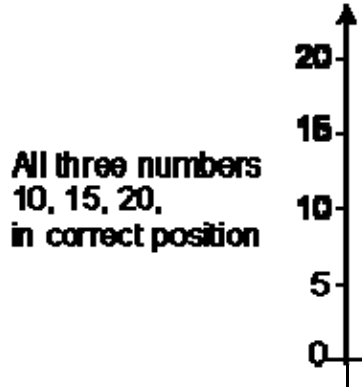


Mark schemes

Q1. (a) 95p

1

(b) All three numbers, 10, 15, 20, in correct position.



1

(c) Award **ONE** mark for correct answer of £17.10 with evidence of any appropriate working out of the answer, eg:

- $(18 \times £1) - (18 \times 5p) = £18 - 90p = £17.10$

- $$\begin{array}{r} 18 \\ \times 90 \\ \hline 1620 \end{array}$$

- $$\begin{array}{r} 18 \\ \times 5 \\ \hline 90 \end{array} \quad 1620 + 90 = £17.10$$

*Accept £17.10p **OR** £17 10 **OR**
£17 10p **OR** 1710p **OR** 17.10*

Q2.

~~$17 = 7 - 7 - 7$~~

or

~~$17 = 6 - 6 - 5$~~

[1] **In either case all three numbers
must be correct**

Q3. (a) 68cm.

Up to 2

(b) Award **TWO** marks for expressions such as:

- $L = 2H - 4$
- $L = 2(H - 2)$
- $L = H + H - 4$

(c) 42 cm,

If answer is incorrect, award **ONE** mark for evidence that the relationship “length is twice the height” has been used, eg:

- $2H + 4H = 126$
- $H + 2H + H + 2H = 126$
- $20 + 40 + 20 + 40 = 120$

Q4. 10,

Q5. (a) The answer is approximately $1/7$. Accept any fraction, percentage or decimal in the range:

- $1/9$ to $1/5$, inclusive
- 11% to 20%, inclusive
- 0.11 to 0.2, inclusive

1

(b) The correct answer is 10. Accept any number in the range 8 to 12, **inclusive**.

1

(d) 12,.

Q6.

392 ÷ 14 = 28

[1]

Q7.

323 × 47 = 15131

both numbers correct.

[1]

Q8. (a) 29

1

(b) £7.52

[3]