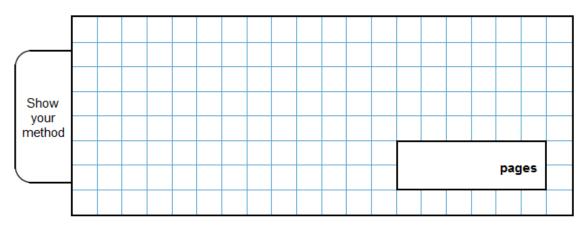


A book has 276 pages.

Amina has read  $\frac{1}{3}$  of the book.

How many pages are left for Amina to read?



2 marks

# Q2.

The numbers in this sequence increase by equal amounts each time.

Write in the three missing numbers.

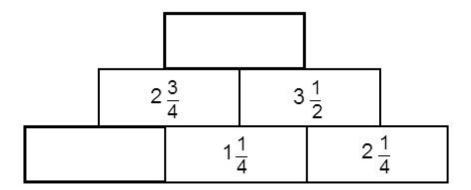


2 marks

# Q3.

In this diagram, the number in each box is the  ${\bf sum}$  of the two numbers below it.

Write the missing numbers.



Q4.

Karen makes a fraction using two number cards.

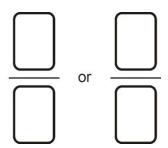


She says,

'My fraction is equivalent to  $\frac{1}{2}$  One of the number cards is 6'

What could Karen's fraction be?

Give both possible answers.



2 marks

Q5.

Complete these fractions to make each equivalent to  $\frac{3}{5}$ 







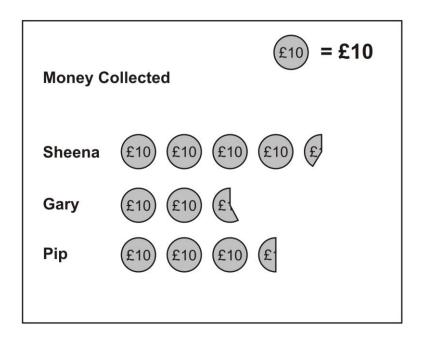
1 mark

# Q6.

Three children do a sponsored silence.



This is a chart of the money they collected.



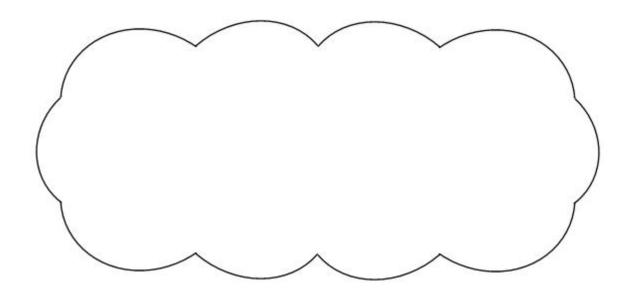
Estimate how much **Sheena** collected.

£

1 mark

Together Gary and Pip collected more than £60

Explain how the **chart** shows this.



1 mark

Q7.

How many quarters are there in  $2\frac{3}{4}$ ?

7	
	l .
	l .

1 mark

Q8.

Write the missing numbers.

One is done for you.

Improper fraction	Mixed number
7 4	1 3/4
2	5 <u>1</u>
<u>17</u> 5	3 5

<u></u>	a
u	IJ.

How many halves are there in 15?

9	

1 mark

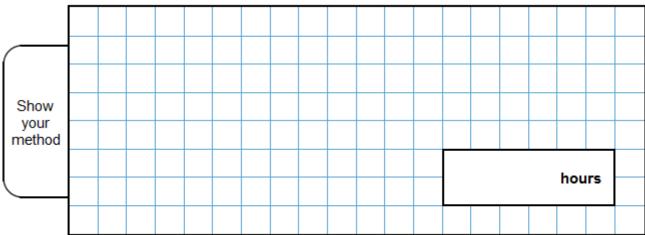
# Q10.

The length of a day on Earth is 24 hours.

2

The length of a day on Mercury is  $58\frac{3}{3}$  times the length of a day on Earth.

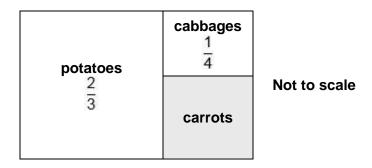
What is the length of a day on Mercury, in **hours**?



# Q11.

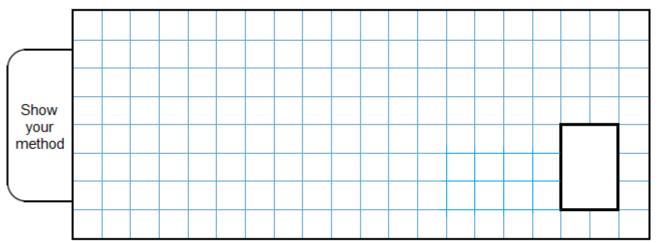
This is a diagram of a vegetable garden.

It shows the fractions of the garden planted with potatoes and cabbages.



The remaining area is planted with carrots.

What **fraction** of the garden is planted with carrots?



# Q12.

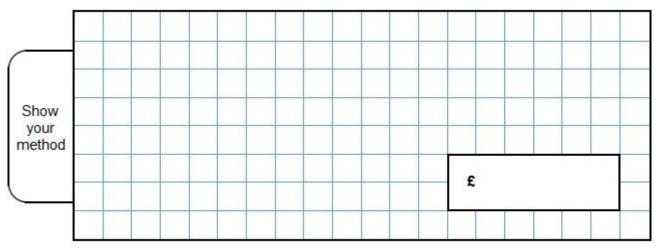
Lara had some money.

She spent £1.25 on a drink.

She spent £1.60 on a sandwich.

She has **three-quarters** of her money left.

How much money did Lara have to start with?



### Mark schemes

### Q1.

Award TWO marks for the correct answer of 184

If the answer is incorrect, award **ONE** mark for:

sight of 92

### OR

- evidence of appropriate method, e.g.
  - $\frac{1}{3} \times 276 = 92$ 92 × 2 =
  - $276 \div 3 = 92$ 276 - 92 =

Answer need not be obtained for the award of ONE mark.

Up to 2 marks

Q2.

Award **TWO** marks for the sequence completed correctly as shown:



$$2\frac{1}{2}$$





If the answer is incorrect, award **ONE** mark for two numbers correct.

Up to 2

[2]

[2]

Q3.

(a) 
$$6\frac{1}{4}$$

Accept equivalent fractions.

**Do not** accept 
$$5\frac{5}{4}$$

1

(b) 
$$1\frac{1}{2}$$

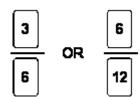
Accept equivalent fractions, eg

$$1\frac{2}{4}$$
,  $\frac{3}{2}$ , 1.5, 150%

[2]



Award **TWO** marks for both fractions correct as shown:



If the answer is incorrect, award **ONE** mark for one fraction correct.

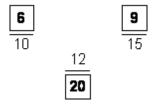
Accept fractions written in either order.

Up to 2

[2]

#### Q5.

Fractions completed as shown below:



All three fractions must be correct for the award of the mark.

[1]

#### Q6.

(a) Answer in the range of £43 to £44 inclusive.

1

1

- (b) Explanation which implies that Gary has an amount greater than £25 but less than £27.50 and that Pip has £35±1, so that their total is greater than £60, eg
  - 'Gary has 26 Pip has 35';
  - 'The chart shows that Gary has 2 and <sup>2</sup>/<sub>3</sub> and Pip has 3 and a half, so that's over 60 pounds';
  - 'The whole symbols together make 50 and then it's 2 halves and Pip has half and Gary has more than half'.

Do not accept vague or arbitrary answers, eg

- 'By the number of coins';
- 'There are 5 ten pounds and 2 halves';
- 'A coin = 10 pounds and a broken coin = a fraction of a coin so a fraction of the money'.

[2]

**Q7**.

11 quarters

[1]

Q8.

2

1

3 2

1

Q9.

30

[1]

[2]

### Q10.

Award **TWO** marks for the correct answer of 1,408

OR

for an answer in the range of 1,406 to 1,409 inclusive.

If the answer is incorrect, award **ONE** mark for:

sight of 1,392

OR

- evidence of an appropriate method, e.g.
  - $24 \times 58\overline{3} = \text{answer}$

Within an appropriate method, if a decimal equivalent for  $\overline{3}$  is given, it must be rounded or truncated to at least 2 decimal places.

- $24 \times 58 = 1,394 \ (error)$   $\frac{2}{3} \text{ of } 24 = 16$  1,394 + 16 = answer176
- $24 \times \overline{3} = \text{answer}$
- 24 × 58.67 = answer.

A final answer is required for the award of **ONE** mark.

Up to 2m

[2]

Q11.

Award **TWO** marks for the correct answer of  $\overline{12}$  or an equivalent fraction.

If the answer is incorrect, award **ONE** mark for:

• sight of 12

**OR** 

· evidence of appropriate method, e.g.

• 
$$\frac{2}{3} + \frac{1}{4}$$
  
 $\frac{8}{12} + \frac{3}{12} = \frac{10}{12}$  (error)  
 $1 - \frac{10}{12} =$ 

• 
$$1 - \frac{2}{3} - \frac{1}{4} =$$

Answer need not be obtained for the award of ONE mark.

Up to 2m

[2]

Q12.

Award TWO marks for the correct answer of £11.40.

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g.

• £1.25 + £1.60 = £2.85 £2.85  $\times$  4

Accept for **ONE** mark an answer of £1,140 **OR** £1,140p **OR** £11.4 as evidence of an appropriate method.

Answer need not be obtained for the award of ONE mark.

Up to 2m

[2]