

**Q1.**

Circle the **two** numbers which add up to 1

0.1    0.65    0.99    0.45    0.35

1 mark

**Q2.**

Write the **largest** whole number to make this statement true.

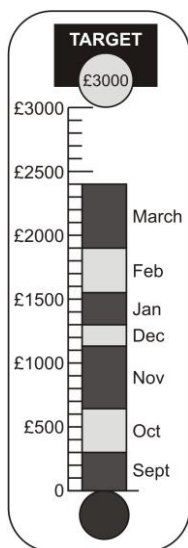
$$50 + \boxed{\phantom{000}} < 73$$

1 mark

**Q3.**

A school collects money for charity.

This chart shows how much has been collected.



The target is **£3000**

Estimate how much **more** money the school needs to reach the target.

1 mark

Anil says,

***The chart shows that we will reach the target in two months.***

Use the chart to explain why Anil may be wrong.

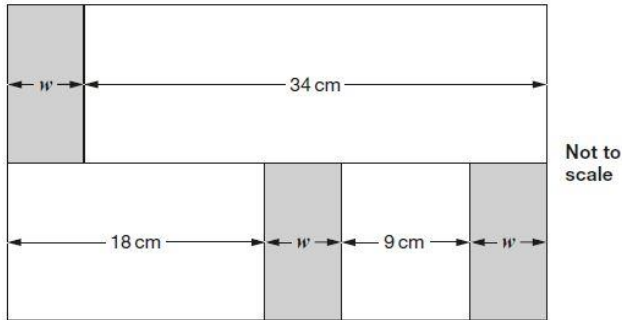
**Q4.**

Write the missing numbers in the sequence

   6,742,000    6,842,010    6,942,020

**Q5.**

In this diagram, the shaded rectangles are all of equal width ( $w$ ).



Calculate the width ( $w$ ) of one shaded rectangle.

2 marks

**Q6.**

This number sequence follows the rule

**'subtract 10, then divide by 10'**

Write the **two numbers** missing from the sequence.



2 mark

**Q7.**

A shop sells notebooks and pens.

Hassan bought **a notebook** and **a pen**.

He paid **£1.10**

Kate bought **a notebook** and **2 pens**.

She paid **£1.45**

Calculate the cost of **a notebook**.

2 marks

**Q8.**

A **drink** and a **box of popcorn** together cost **90p**.

**2 drinks** and a **box of popcorn** together costs **£1.45**

What does a **box of popcorn** cost?

1 mark

Explain how you got your answer.

Q9.

$$\begin{array}{r} 97 \square 42 \\ -1 \square 36 \square \\ \hline 85477 \end{array}$$

2 marks

Q10.

Layla wants to estimate the answer to this calculation.

$$3\frac{9}{10} - 2\frac{1}{8} + 1\frac{4}{5}$$

Tick the calculation below that is the best estimate.

Tick **one**

3 - 2 + 2

4 - 2 + 1

4 - 2 + 2

3 - 2 + 1

1 mark

Mark schemes

**Q1.**

0.1     $\textcircled{0.65}$     0.99    0.45     $\textcircled{0.35}$

[1]

**Q2.**

22

[1]

**Q3.**

(a) Answer in the range of £600 to £650, inclusive.

1

(b) Explanation which indicates that the amounts raised each month can vary **AND** that the money raised may be either insufficient to reach the target in 2 months or enough to reach the target in 1 month, eg

- 'They could have two months like December'
- 'In April they might get more money than any month before'

*Accept appropriate explanations related to the answer given in 19a, even if this is incorrect.*

**Do not** accept vague or arbitrary reasons, eg:

'They might not get any more money';

'People have spent all their money on charity';

'It's not enough time'.

1

[2]

**Q4.**

6,641,990

1

7,042,030

1

[2]

**Q5.**

Award **TWO** marks for the correct answer of 7

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

- $18 + 9 + 2 \text{ widths} = 34 + 1 \text{ width}$   
 $27 + 2 \text{ widths} = 34 + 1 \text{ width}$   
 $27 + 1 \text{ width} = 34$   
 $34 - 27$

**OR**

- $34 - (18 + 9)$

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

*Award **ONE** mark for a method which uses algebraic representation correctly, e.g.*

- $34 + w = 18 + w + 9 + w$   
 $34 + w = 27 + w + w$

Up to 2m

Q6.

1210	120	11	0.1	-0.99
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(a) 1210 in left-hand box.

1

(b) -0.99 in right-hand box.

*Do not accept '0.99-'**'-9.9'**Do not accept  $\frac{10}{10}$* 

1

[2]

Q7.

Award **TWO** marks for the correct answer of 75pIf the answer is incorrect, award **ONE** mark for evidence of appropriate working, eg

$$£1.45 - £1.10 = 35p$$

$$£1.10 - 35p = \text{wrong answer}$$

**OR**

$$£1.10 \times 2 = £2.20$$

$$£2.20 - £1.45 = \text{wrong answer}$$

*Accept for **ONE** mark 0.75p **OR** £75 as evidence of appropriate working.**Working must be carried through to reach an answer for the award of **ONE** mark.*

Up to 2 (U1)

[2]

Q8.

(a) 35p

*Answer to 17a may be embedded in answer to 17b.  
In this case, award one mark for correct answer.*

1

(b) Explanation which includes reference to any appropriate method even if the answer is incorrect, eg:

- I took 90 from 145 and took my answer from 90
- If a drink and popcorn costs 90p you add to it however much it takes to make 145, which is 55p so you times 55 by 2 which is 110 and take away 145 and you get 45 (incorrect answer).  
OR  
a trial and improvement approach, eg:
- I thought they might both cost 45p. I guessed the drink and doubled it to make 90p, then added another 45 but I got 10 less than £1.45. So I tried 55 and it worked so the popcorn is 35

*Accept appropriate numerical working elsewhere on page as adequate explanation.  
If there is no working and no explanation, there is no mark for 17b, even if 17a is correct.**If answer to 17a is correct, accept appropriate non-numerical answer to 17b, (ie no reference to actual amounts of money).*

1

[2]

**Q9.**

All three correct

$$\begin{array}{r} 9 \ 7 \ \boxed{8} \ 4 \ 2 \\ 1 \ \boxed{2} \ 3 \ 6 \ \boxed{5} \\ \hline 8 \ 5 \ 4 \ 7 \ 7 \end{array}$$

2

or

Any two correct

1

[2]

**Q10.**

Third box only ticked correctly, as shown:

3 - 2 + 2

4 - 2 + 1

4 - 2 + 2

3 - 2 + 1

Accept alternative unambiguous positive indication of the correct answer, e.g. Y.

[1]