

Solving Equations

Please write clearly in block capitals

Forename:

Surname:

Materials

For this paper you must have:

- mathematical instruments



You **can** use a calculator.

Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- You may ask for graph paper, tracing paper and more answer paper. These must be tagged securely to this answer book.

Advice

- In all calculations, show clearly how you work out your answer.

- 1 Solve $x - 2 = 0$.
Circle your answer

[1 mark]

$x = -2$

$x = 0$

$x = \frac{1}{2}$

$x = 2$

- 2 $5a = 13$.
Write down the value of $15a$

[2 marks]

Answer _____

- 3 Solve $2x - 3 = 7$

[2 marks]

Answers _____

Turn over for next question

Turn over ►

4 Solve the following equations:

4(a) $3x - 2 = 9$

[2 marks]

 $x =$ _____

4(b) $2x - 5 + x - 2 = 5$

[2 marks]

 $x =$ _____

4(c) $6x - 2 = 4x + 14$

[2 marks]

 $x =$ _____

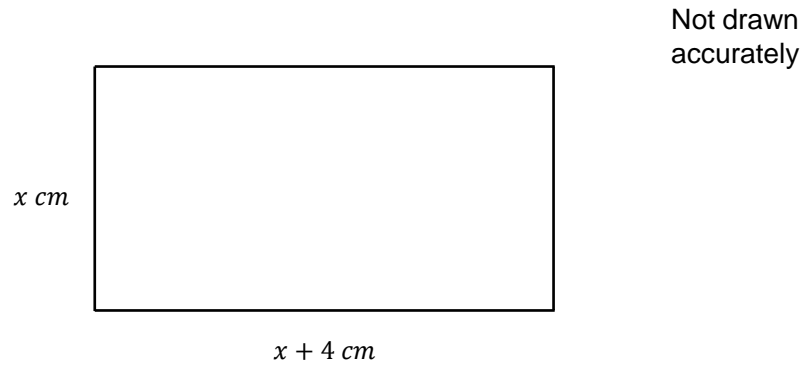
4(d) $\frac{x}{3} - 5 = 7$

[2 marks]

 $x =$ _____

Turn over for next question

- 5 Susie knows that the length of the rectangle below is 4 cm greater than the width.



- 5(a) Write down an expression for the perimeter

[1 mark]

Answer _____

- 5(b) Given that the perimeter is 32 cm, find the value of x .

[2 marks]

Answer _____ cm

Turn over for next question

- 6 Mackey's milk company use the following formula to calculate their sale price

$$C = 55P_f + 40P_s$$

C = Cost (in pence)

P_f = Pints of full fat milk

P_s = Pints of skimmed milk

- 6(a) Terry gets 1 pint of full fat milk and 2 pints of skimmed milk.
Work out the cost in pounds (£).

[2 marks]

Answer _____

- 6(b) Dickie's Dairy Services Ltd charges the following for their milk.

$$C = 25P_f + 15P_s + 90$$

How much would it cost Terry for an order in Dickie's Dairy Services Ltd if he bought the same amount that he did at Mackey's milk?

[2 marks]

Answer _____

Turn over for next question

- 7** Bill calculates his income tax T based on his earnings E in the following way
 Bill is not taxed on the first £12,500 he earns.
 He is taxed 25% on the rest of his earnings.

- 7(a)** Write down an equation linking T and E

[2 marks]

Answer _____

- 7(b)** Bill paid £5,500 tax this year.
 How much did his earnings amount to?

[2 marks]

Answer _____



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