

GCSE Maths Linear Equations (Foundation): check-up and exam-style questions: worksheet

GCSE Maths - Linear Equations - Foundation - Test yourself

Name: _____

Date: _____

Score: _____

22 questions. Write your answers in the spaces. Answers and step-by-step help are free at websink.site/gcse/maths/ch09-linear-equations/foundation/check-up-and-exam-style-questions/

Exercise 9Z Check-up (non-calculator)

Non-calculator

1 Solve $x + 9 = 20$

Answer:

2 Solve $4x = 36$

Answer:

3 Solve $3x + 7 = 25$

Answer:

4 Solve $5x - 8 = 12$

Answer:

5 Solve $2x + 9 = 3$

Answer:

6 Solve $7x - 5 = 3x + 11$

Answer:

7 Solve $4(x - 3) = 20$

Answer:

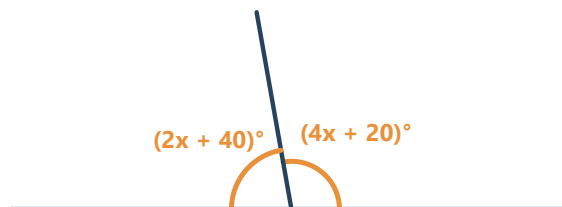
8 Solve $\frac{x + 5}{3} = 4$

Answer:

9 Tom thinks of a number. He multiplies it by 3 and then subtracts 4. The answer is 17. Find Tom's number.

Answer:

10 The angles are on a straight line. Work out the value of x .



Answer:

Exercise 9X Exam-style questions**Non-calculator**

1 Solve $5x + 3 = 38$

[2 marks]

Answer:

2 Solve $\frac{x}{4} + 3 = 8$

[2 marks]

Answer:

3 Solve $7x - 3 = 3x + 17$

[3 marks]

Answer:

4 Solve $3(2x - 1) = 21$

[3 marks]

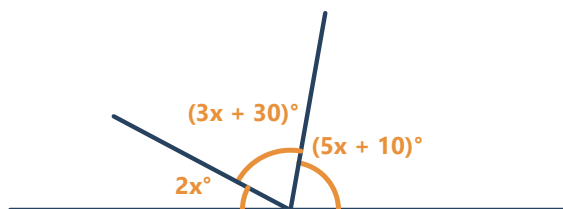
Answer:

5 Solve $5(x - 2) = 3(x + 4)$

[3 marks]

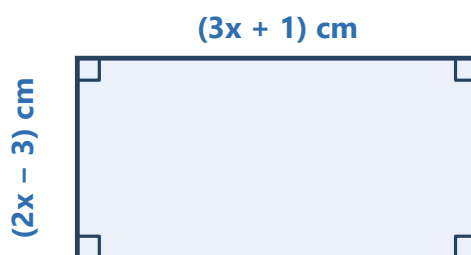
Answer:

- 6** Three angles on a straight line are $(5x + 10)^\circ$, $(3x + 30)^\circ$ and $2x^\circ$. Work out the value of x . You must show your working. [3 marks]



Answer:

- 7** The rectangle has a perimeter of 46 cm. (a) Work out the value of x . (b) Work out the area of the rectangle. [4 marks]



Answer:

- 8** Sia buys 4 identical T-shirts. Delivery costs £3 and is added once. The total is £35. Work out the cost of one T-shirt. [3 marks]

Answer:

- 9** Amy is 3 years older than Ben. Cal is twice as old as Ben. The total of their ages is 39. Work out the age of each person. [4 marks]

Answer:

- 10** Show that $x = 4$ is the solution of $5x - 7 = 3x + 1$. [2 marks]

Answer:

- 11** Phone deal A costs 1000 pence a month plus 4 pence per minute of calls. Phone deal B costs 400 pence a month plus 10 pence per minute. For how many minutes of calls do the two deals cost the same? [4 marks]

Answer:

- 12** Chen says that $x = 3$ is the solution of $2x + 5 = 4x - 1$. Is Chen correct? You must show your working.

Answer:

[2 marks]