1 (b) Solve $2x + 5 = -19$

$x =$.....

(2)

(Total for Question 1 is 2 marks)

2 (b) Solve $x + 5 = 12$

$x =$ .....

(1)

(c) Solve $9y = 36$

$y =$ .....

(1)

(Total for Question 2 is 2 marks)

3 (a) Solve $5(4 - x) = 7 - 3x$

Show clear algebraic working.

$x =$ .....

(3)

(Total for Question 3 is 3 marks)

4 (b) Solve $4x + 5 = 27$

$x =$ .....

(2)

(Total for Question 4 is 2 marks)

5 (b) Solve $(2x + 5)^2 = (2x + 3)(2x - 1)$

$x =$ .....

(3)

(Total for Question 5 is 3 marks)

6 (c) Solve $5x - 11 = x + 6$
Show clear algebraic working.

$x =$ .....

(3)

(Total for Question 6 is 3 marks)

7 Solve $5(2x - 3) = 20$

Show clear algebraic working.

$x =$ .....

(Total for Question 7 is 3 marks)

8 (b) Solve $2n + 5 = 16$

$n =$ .....

(2)

(Total for Question 8 is 2 marks)

9 (b) Solve $4 - 3x = \dfrac{5 - 8x}{4}$

Show clear algebraic working.

$x =$ .....

(3)

(Total for Question 9 is 3 marks)

10 (e) Solve $x - 7 = 19$

$x =$ .....

(1)

$18^2 + 15^2 - 5^3 = 4n$

(f) Work out the value of n.

$n =$ .....

(2)

(Total for Question 10 is 3 marks)

11 (a) Solve $p = \dfrac{3p - 5}{10}$

Show clear algebraic working.

$p =$ .....

(3)

(Total for Question 11 is 3 marks)

12 (c) Solve $\frac{c}{3} = 9$

c = ...

(1)

(Total for Question 12 is 1 marks)

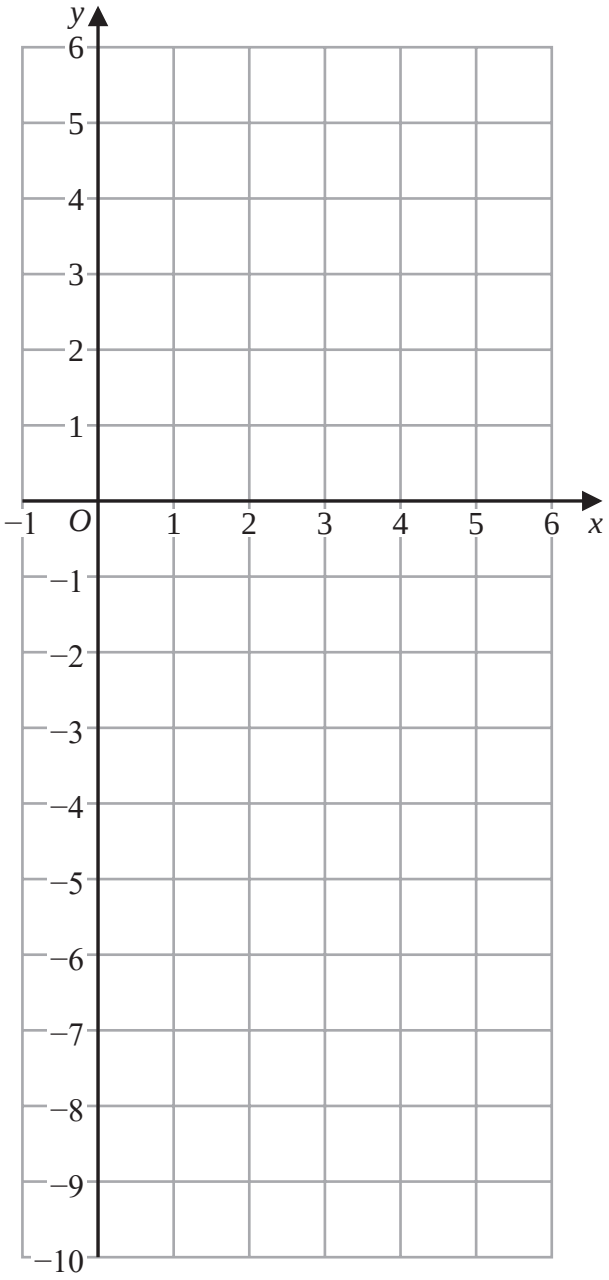
13 (c) Solve $4p + 9 = 24$

$p =$ .....

(2)

(Total for Question 13 is 2 marks)

14 On the grid, draw the graph of $y = -2x + 3$ for values of x from -1 to 5



(Total for Question 14 is 3 marks)

15 (b) Solve $2x - 3 = \frac{3x - 5}{4}$

Show clear algebraic working.

$x =$ .....

(3)

(Total for Question 15 is 3 marks)

16 3 cups each contain 200 millilitres of water.
4 jugs each contain x millilitres of water.

Emma pours all the water from the 3 cups and the 4 jugs into a container.
The total amount of water that Emma pours into the container from the 3 cups and 4 jugs is 3.5 litres.

Work out the value of x

$x =$ .....

(Total for Question 16 is 4 marks)

17 Larry is a delivery man.

He has 7 parcels to deliver.
The mean weight of the 7 parcels is 2.7 kg

Larry delivers 3 of the parcels.
Each of these 3 parcels has a weight of W kg

The mean weight of the other 4 parcels is 3.3 kg

Work out the value of W

W = ...

(Total for Question 17 is 3 marks)

18 (c) Solve $5r - 3 = 8$

$r =$ .....

(2)

(Total for Question 18 is 2 marks)

19 (a) Solve $5c = 15$

$c =$ .....

(1)

(Total for Question 19 is 1 marks)

20 (b) Solve $6x - 5 = \frac{4x - 7}{2}$

Show clear algebraic working.

$x =$ .....

(3)

(Total for Question 20 is 3 marks)

21 (a) Solve $5x = 30$

$x =$ .....

(1)

(b) Solve $y - 7 = 12$

$y =$ .....

(1)

(2)

(Total for Question 21 is 2 marks)

22 (c) Solve $7x = 42$

$x =$ .....

(1)

(d) Solve $n + 6 = 5$

$n =$ .....

(1)

(Total for Question 22 is 2 marks)

23 (d) Solve $7g + 3 = 2g - 5$
Show clear algebraic working.

$g =$ .....

(3)

(Total for Question 23 is 3 marks)

24 (c) Solve $2d + 7 = 16$

$d =$ .....

(2)

(Total for Question 24 is 2 marks)

25 Solve $3(2 - 4x) = 5 - 8x$
Show clear algebraic working.

$x =$ .....

(Total for Question 25 is 3 marks)

26 (b) Solve $5 + x = 12$

$x =$ .....

(1)

(c) Solve $\frac{y}{6} = 3$

$y =$ .....

(1)

(Total for Question 26 is 2 marks)

27 The diagram shows rectangle *ABCD*

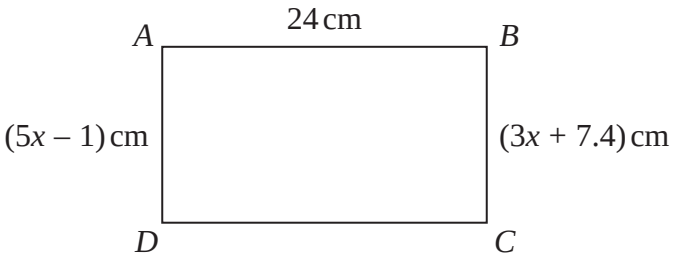


Diagram **NOT** accurately drawn

Work out the perimeter of the rectangle.
Show your working clearly.

..... cm

(Total for Question 27 is 4 marks)

28 (c) Solve $4x - 7 = 23$

$x =$ .....

(2)

(Total for Question 28 is 2 marks)

29 (c) Solve $13 - x = 7$

$x =$ .....

(1)

(d) Solve $4y + 7 = 43$

$y =$ .....

(2)

(Total for Question 29 is 3 marks)

30 *ABCD* is a trapezium.

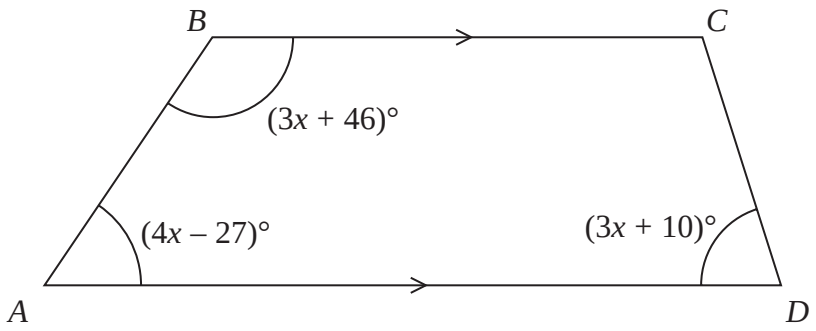


Diagram **NOT** accurately drawn

BC is parallel to *AD*

Find the size of the largest angle inside the trapezium.

.....°

(Total for Question 30 is 4 marks)