GCSE HIGHER · REVISION MAT 2

Solving linear equations

1 Solve

$$\frac{x}{3} + 4 = 10$$

2 Solve

$$7x + 4 = 3x - 12$$

3 Show that $x = 2.5$ is the solution of

$$4(x - 1) = 6$$

4 An isosceles triangle has two equal sides of $(3x - 1)$ cm and $(x + 7)$ cm.

The third side is $2x$ cm.

Find its perimeter.

5 Solve

$$5(2x - 3) - 2(3x - 4) = 9$$

6 Find all four angles of this parallelogram.



7 Solve

$$\frac{5x - 1}{4} = 5 - \frac{x + 3}{4}$$

8 Solve

$$\frac{2}{x} + \frac{3}{2x} = \frac{7}{12}$$

Mr&Mrs MATHS

ANSWERS · REVISION MAT 2

Solving linear equations

1 $\frac{x}{3} = 6$

$x = 18$

2 $4x = -16$

$x = -4$

3 $4x - 4 = 6$

$4x = 10$

$x = 2.5$

4 $3x - 1 = x + 7 \Rightarrow x = 4$

Sides 11, 11 and 8 cm

Perimeter = 30 cm

5 $10x - 15 - 6x + 8 = 9$

$4x - 7 = 9$

$x = 4$

6 Opposite angles are equal:

$3x + 20 = 5x - 12 \Rightarrow x = 16$

68°, 112°, 68°, 112°

7 $5x - 1 = 20 - (x + 3)$

$5x - 1 = 17 - x$

$6x = 18$

$x = 3$

8 $\frac{4 + 3}{2x} = \frac{7}{12}$

$\frac{7}{2x} = \frac{7}{12}$

$x = 6$

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