Solving equations and rearranging

Year 7 | Key Stage 3 | 12 questions, 38 marks

KS3 Maths topic practice

Scan for the solutions

Name: _____ **Date:** _____ **Score:** _____ **/ 38**

1 a. Solve $c - 8 = 11$

b. Solve $6d = 54$

c. Solve $e \div 4 = 7$

(3 marks)

Answer _____

2 Make x the subject of each equation.

a. $x + 5 = y$

b. $x - 3 = p$

c. $4x = t$

(3 marks)

Answer _____

3 Solve $5x - 7 = 23$

(2 marks)

Answer _____

4 Solve $4(2x - 3) = 36$

(3 marks)

Answer _____

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5 Solve

a. $3x + 11 = 2$

b. $2(y + 7) = 6$

c. $10 - 3w = 25$

(4 marks)

Answer _____

6 Solve $7x - 5 = 3x + 23$

(3 marks)

Answer _____

7 Solve $5x + 9 = 2x - 6$

(3 marks)

Answer _____

8 Make x the subject of the formula

$y = 2x + 9$

(2 marks)

Answer _____

9 a. Make r the subject of $A = 3(r + 2)$

b. Make x the subject of $y = x^2 + 4$, where x is positive

c. Make m the subject of $k = \sqrt{m}$

(3 marks)

Answer _____

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10 A rectangle has length $(3x + 2)$ cm and width $(x - 1)$ cm.

The perimeter of the rectangle is 50 cm.

Work out the length of the rectangle.

(4 marks)

Answer _____

11 Jamal, Mei and Tobi collect football stickers.

Mei has 5 more stickers than Jamal.
Tobi has twice as many stickers as Jamal.
Altogether they have 61 stickers.

How many stickers does Tobi have?

(4 marks)

Answer _____

12 A square has sides of length $(2x - 3)$ cm.

An equilateral triangle has sides of length $(x + 6)$ cm.

The square and the triangle have the same perimeter.

Work out the area of the square.

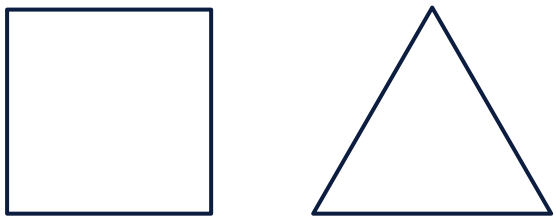

Diagram NOT accurately drawn

(4 marks)

Answer _____

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End of questions | Total 38 marks

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