

Maths Star

Solving Equations Answers

Solve:

$$1) x + 4 = 13$$

$$x + 4 - 4 = 13 - 4$$

$$x = 13 - 4$$

$$x = 9$$

$$2) x - 3 = 10$$

$$x - 3 + 3 = 10 + 3$$

$$x = 10 + 3$$

$$x = 13$$

$$3) a + 6 = 11$$

$$a + 6 - 6 = 11 - 6$$

$$a = 11 - 6$$

$$a = 5$$

$$4) b - 7 = -2$$

$$b - 7 + 7 = -2 + 7$$

$$b = -2 + 7$$

$$b = 5$$

$$5) 3x = 12$$

$$\div 3 \quad \div 3$$

$$x = 12 \div 3$$

$$x = 4$$

$$6) 4a = 16$$

$$\div 4 \quad \div 4$$

$$x = 16 \div 4$$

$$x = 4$$



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$$7) 2y = 14$$

$$\div 2 \quad \div 2$$

$$x = 14 \div 2$$

$$x = 7$$

$$8) 3x + 4 = 16$$

$$3x + 4 - 4 = 16 - 4$$

$$3x = 12$$

$$\div 3 \quad \div 3$$

$$x = 12 \div 3$$

$$x = 4$$

$$9) 2a - 7 = 19$$

$$2a - 7 + 7 = 19 + 7$$

$$2a = 26$$

$$\div 2 \quad \div 2$$

$$x = 26 \div 2$$

$$x = 13$$

$$10) 3b + 3 = 9$$

$$3b + 3 - 3 = 9 - 3$$

$$3b = 6$$

$$\div 3 \quad \div 3$$

$$x = 2$$

$$11) 4x + 4 = 2x + 8$$

$$4x - 2x + 4 = 2x - 2x + 8 \leftarrow 1^{\text{st}} - \text{To get the } 2x \text{ over to the left, we take it away from both sides}$$

$$2x + 4 = 8$$

$$2x + 4 - 4 = 8 - 4 \leftarrow 2^{\text{nd}} - \text{To get the } +4 \text{ on the right hand side, we take away 4 from each side}$$

$$2x = 4 \leftarrow 3^{\text{rd}} - \text{This leaves us with } 2x = 4, \text{ which we divide by 2 to find our answers}$$

$$\div 2 \quad \div 2$$

$$x = 2$$