

One step Equations

1. $2x = 10$

$x = 5$

2. $x + 8 = 10$

$x = 2$

3. $5 - x = 2$ (think carefully)

$x = 3$

4. $5x = 45$

$x = 9$

6. $20x = 100$

$x = 5$

7. $x + 11 = 30$

$x = 19$

8. $7x = 84$

$x = 12$

9. $x - 12 = 5$

$x = 17$

10. $15 - x = 10$

$x = 5$

Check your solutions work!

I think of a number..

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Solving Equations

Find the value of x.

1. $2x + 4 = 10$

$$\begin{aligned} 2x &= 6 \\ x &= 3 \end{aligned}$$

2. $3x + 1 = 19$

$$\begin{aligned} 3x &= 18 \\ x &= 6 \end{aligned}$$

3. $5x - 1 = 24$

$$\begin{aligned} 5x &= 25 \\ x &= 5 \end{aligned}$$

4. $10x - 4 = 16$

$$\begin{aligned} 10x &= 20 \\ x &= 2 \end{aligned}$$

5. $12 + 2x = 14$

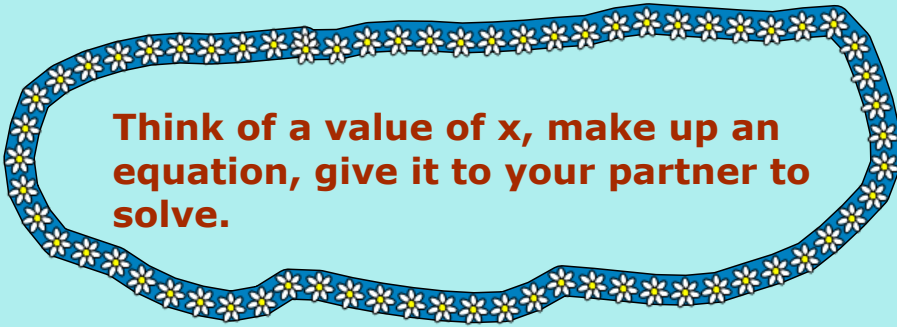
$$\begin{aligned} 2x &= 2 \\ x &= 1 \end{aligned}$$

$$\begin{aligned} 1 \times 1 &= 1 \\ 1 \times 2 &= 2 \\ \sqrt{9} &= 3 \\ 1 \times 4 &= 4 \end{aligned}$$

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C/D page 152 qu 112

D/E page 150 qu 1-16



Think of a value of x , make up an equation, give it to your partner to solve.

For example:

$$3x - 1 = 8$$
$$3x = 9$$
$$\underline{x = 3} \quad |$$

Solving two - step equations

Now have a go at solving these:

1. $4x + 1 = 9$

2. $5x + 3 = 8$

3. $6x - 1 = 29$

4. $10x + 3 = 103$

5. $4x - 5 = 11$

See attachments

Some tricky ones:

Work out the solutions to :

1. $4 - x = 3$

2. $10 - x = 6$

3. $15 - x = 7$

A step more difficult is, for example:

4. $10 - 2x = 6$

5. $25 - 5x = 10$

6. $100 - 11x = 78$

Attachments

group solving equations.doc

I'm thinking of a number.doc