

Answers

Activity 1: two-step equations worksheet

1) $3x + 4 = 19$

Subtract 4 from both sides

$$3x = 15$$

Divide both sides by 3

$$x = 5$$

Lexi's number is 5.

2.a): $m = 11$

2.b): $q = 6$

3.a): $3a + 30\text{ml} = 600\text{ml}$

$$3a = 570 \text{ ml}$$

$$a = 190 \text{ ml}$$

3.b) i) $3a - 20 = 16$

$$a = 12$$

ii) $20 = 2p + 8$

$$p = 6$$

iii) $4c - 6 = 14$

$$c = 5$$

iv) $2p + 8 = 21$

$$p = 6.5 \text{ or } 6\frac{1}{2}$$

Activity 2: Solving equations worksheet

1. a) $3a + 2 = 17$

$$\begin{array}{r} -2 \\ 3a + 2 = 17 \\ \hline \end{array}$$

$$3a = 15$$

$$\begin{array}{r} \div 3 \\ 3a = 15 \\ \hline \end{array}$$

$$a = 5$$

b) $4b + 80 = 100$

$$b = 20$$

2) $50 = 15 + 5c$

$$35 = 5c$$

$$c = 7$$