1 Solve 
$$3x = 6$$

$$x = \frac{6}{3} = 2$$

Circle your answer.

[1 mark]

$$x = 0.5$$



$$x = 3$$

$$x = 18$$

2 Solve 8x + 7 = 2x + 10

$$6x = 3 \bigcirc$$

$$\chi = \frac{3}{4}$$

$$x = \frac{1}{2}$$

3 (a) Solve x + 17 = 12

[1 mark]

**3 (b)** Solve  $\frac{w}{4} = 12$ 

[1 mark]

3 (c) Simplify fully  $\frac{9m}{12m}$ 

[2 marks]

$$\frac{9 \div 3}{12 \div 2} = \frac{3}{4}$$

Answer

4 Here is an identity.

$$a(3x-10) \equiv 21x + 2b$$

Work out the values of a and b.

$$2b = -70$$

$$a =$$
\_\_\_\_\_\_  $b =$ \_\_\_\_\_\_\_

[2 marks]

5 Solve 10x - 3 = 21

$$x =$$
  $2 \cdot 4 \cdot 0$ 

6 Solve 4 + x = 12

[1 mark]

$$x = -16$$

$$x = 8$$

7 Solve 
$$\frac{2w}{15} = \frac{4}{5}$$

$$2W = \frac{4}{5} \times 15$$

[2 marks]

B (a) Circle the point that is on the line 4x + y = 7

[1 mark]

(2, 1) (2, -1) (1, 2) (-1, 2) 
$$4(2) + (4)$$

Solve 
$$5(2x-1) = 6x + 9$$
  
 $10x - 5 = 6x + 6$ 

$$x = \frac{14}{4} = 3.5$$

$$x =$$
 3.5

**10 (a)** Solve 5x = 15

$$\varkappa = \frac{15}{5} = 3$$

[1 mark]

10 (b) Solve y + 7 = 50

[1 mark]

$$y = 50 - 7$$

: 43

**10** (c) Solve  $\frac{c}{4} = 8$ 

[1 mark]

= 32

**11 (a)** Solve 11x - 3 = 6x + 1

[3 marks]

$$11x - 6x = 1 + 3$$

$$\chi = \frac{4}{5} = 0.8 \text{ ()}$$

$$x = 0.8$$

**11 (b)** Solve  $\frac{2x}{5} = 14$ 

[2 marks]

**12** (a) Solve 12 - e = 0

[1 mark]

e = 12

e = 12 (i)

**12 (b)** Solve 7f = 0

[1 mark]

f= 0 ()

13 Solve 7x - 22 = 4x + 29

$$7x - 4x = 2q + 22$$

$$3x = 51$$

$$x = \frac{51}{3}$$

$$= 17$$