1 (a) Solve

Solve
$$5x + 6 > 3x + 15$$

[3 marks]

$$5x - 3x > 15 - 6$$

- 2x > 9 (1)
- $x > \frac{q}{2}$ (1)

- Answer $\times \frac{9}{2}$
- 1 (b) Write down the inequality represented by the number line.



[2 marks]

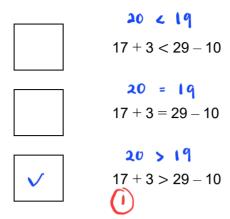
Answer

2 6 2 < 5

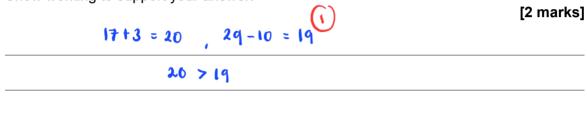
(2)

2 (a) Which statement is correct?

Tick one box.



Show working to support your answer.



3 (a) x is at least 7

Circle the correct inequality.

[1 mark]

x < 7

 $x \leqslant 7$ x > 7





4 Write down all the integers that satisfy the inequality

$$-3 \le x < 2$$

[2 marks]

5 (a) c > 4 d < 4 c - d = 6

Work out a possible pair of values for c and d.

[2 marks]

$$c =$$
 $d =$

5 (b) w is greater than 1 and less than 2 x is greater than 0 and less than 1

$$w + x = 2.6$$

Work out a possible pair of values for w and x.

[2 marks]

Work out all the **integer** values of *x* for which

 $12 \leqslant 4x < 25$

[2 marks]

6

$$\bigcap$$

$$x < \frac{25}{4}$$

3,4,5,6



Answer 3 4 5 6

7 The largest possible value of n is 2

Circle the correct inequality.

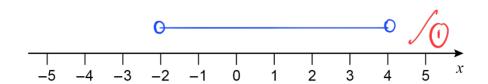
[1 mark]



n < 2 $n \geqslant 2$ n > 2

8 (a) Represent -2 < x < 4 on the number line.

[1 mark]



8 (b) Solve $5y + 14 \ge 11$

[2 marks]

$$\frac{y \geqslant -3}{5}$$

Answer
$$y \geqslant -\frac{3}{5}$$