1 (a) Solve $5x + 6 > 3x + 15$

[3 marks]

Answer _____

1 (b) Write down the inequality represented by the number line.

[2 marks]

Answer _____

2 (a) Which statement is correct?

Tick **one** box.

[ ] $17 + 3 < 29 - 10$

[ ] $17 + 3 = 29 - 10$

[ ] $17 + 3 > 29 - 10$

Show working to support your answer.

[2 marks]

_____

_____

_____

3 (a) x is at least 7

Circle the correct inequality.

[1 mark]

$x < 7$ $x \leqslant 7$ $x > 7$ $x \geqslant 7$

4   Write down all the integers that satisfy the inequality

$$-3 \leqslant x < 2$$

[2 marks]

Answer _____

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]

$w =$ _____ $x =$ _____

6   Work out all the **integer** values of x for which $12 \leqslant 4x < 25$

[2 marks]

Answer _____

7   The largest possible value of n is 2
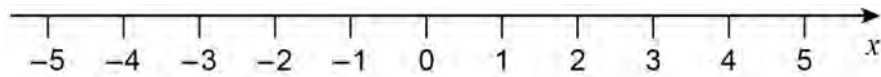
Circle the correct inequality.

[1 mark]

$$n \leqslant 2 \qquad n < 2 \qquad n \geqslant 2 \qquad n > 2$$

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

[1 mark]

$$\begin{array}{ccccccccccc} \mid & \mid & \mid & \mid & \mid & \mid & \mid & \mid & \mid & \mid & \mid \\ -5 & -4 & -3 & -2 & -1 & 0 & 1 & 2 & 3 & 4 & 5 \end{array} \xrightarrow{\quad} x$$

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

[2 marks]

Answer _____