

STEP 5: SOLVE INEQUALITIES (UNKNOWN BOTH)

Solve:

$$3x + 4 \geq 2x + 7$$

$$-2x + 6 \geq -4x - 10$$

$$6x - 2 \geq 4x + 6$$

STEP 6: SOLVE IN CONTEXT

The mean of the following is 7
Find x and then each term.

$$x, 17, 3x+1, 19, 7, 6x, 4x-2$$

STEP 7: SUBSTITUTION

$$a = 6 \quad b = -7 \quad c = \frac{1}{2} \quad d = -5$$

$$1) 6a - b$$

$$4) c^2 + d(a - b)$$

$$2) 3a + c - b$$

$$5) \sqrt{\frac{c(a+b)}{d}}$$

$$3) c(d^2 + b) - a$$

$$6) \frac{a^2 + b^2 + c^2 + d^2}{3}$$

STEP 8: REARRANGE

Make b the subject of the formula:

$$2a + b = c$$

$$3a - b = 21$$

$$\sqrt{\frac{b+2}{3}} = 5$$