



Air maths tuition

Interact, engage and perform

Modulus Inequalities (1)

$$|3-5x| < 7$$
$$\therefore -7 < 3-5x < 7$$
$$\therefore -7 < 3-5x \quad \text{or} \quad 3-5x < 7$$
$$\therefore 3-5x > -7 \qquad \qquad \qquad \therefore -5x < 4$$
$$\therefore -5x > -10 \qquad \qquad \qquad \therefore x > -\frac{4}{5}$$
$$\therefore x < 2$$
$$\begin{array}{c} \text{-----} \\ 7 > -3+5x \\ -3+5x < 7 \\ \therefore 5x < 10 \Rightarrow x < 2 \end{array}$$
$$\begin{array}{c} \text{-----} \\ \oplus \qquad \oplus \\ -\frac{4}{5} \qquad 2 \end{array}$$
$$\therefore -\frac{4}{5} < x < 2$$

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