

6th February



Corbettmaths

$$4\frac{1}{4} \div 2\frac{3}{5}$$

$$\frac{17}{4} \div \frac{13}{5}$$

$$\frac{17}{4} \times \frac{5}{13} = \frac{85}{52}$$

$$1\frac{33}{52}$$

Tim's pay increased by 5% to £880 a fortnight.

What was his pay before the increase?

$$105\% = 880$$

$$1\% = 8.3809\dots$$

$$100\% = \pounds 838.09 \text{ or } \pounds 838.10$$

- $x > 4$ ~~—~~ x is less than or equal to 4
 $x \leq 4$ ~~—~~ x is less than 4
 $x < 4$ ~~—~~ x is greater than 4
 $x \geq 4$ — x is greater than or equal to 4

Match each inequality to the correct description.

Line 1 has gradient 4 and passes through the point (3, 10).

What is its equation?

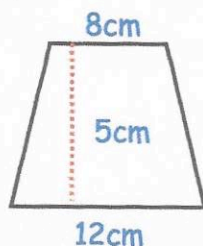
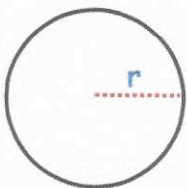
$$y = 4x + c$$

$$10 = 4 \times 3 + c$$

$$10 = 12 + c \quad c = -2$$

$$y = 4x - 2$$

The trapezium and circle have the same area. Find r .



$$\text{Area} = \frac{1}{2}(8+12) \times 5$$

$$= 10 \times 5 = 50 \text{ cm}^2$$

$$\pi r^2 = 50$$

$$r^2 = 15.915\dots$$

$$r = 3.989 \text{ cm}$$