



Zainab's pay increased by 15% to £828 a fortnight.

What was her pay before the increase?

$$115\% = 828$$

$$1\% = 7.2$$

$$100\% = \text{£}720$$

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

What is its equation?

$$y = 4x + c$$

$$10 = 4 \times 3 + c \quad c = -2$$

$$y = 4x - 2$$

Work out

$$\frac{1}{2} + \left(\frac{5}{7}\right)^2$$

$$\frac{1}{2} + \frac{25}{49}$$

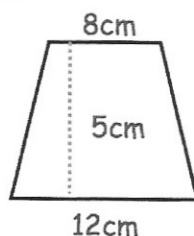
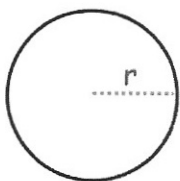
$$\frac{49}{98} + \frac{50}{98} = \frac{99}{98}$$

$$1\frac{1}{98}$$

The average distance of the sun from Earth is 1.5×10^8 km
Write this as an ordinary number.

$$150,000,000 \text{ km}$$

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



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

$$= 50 \text{ cm}^2$$

$$\pi r^2 = 50$$

$$r^2 = 15.915 \dots$$

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