



Which of these is a geometric progression?

4, 6, 8, 10, 12

4, 8, 16, 32, 64

4, 6, 10, 16, 24

4, 7, 12, 19, 28

C is the point (6, -3)

D is the point (9, -12)

$$\frac{-9}{3} = -3$$

Does the point E(-17, 60) lie on the straight line passing through CD?

$$y = -3x + c$$

$$-3 = -18 + c \quad c = 15$$

$$y = -3x + 15$$

$$x = -17$$

$$y = 51 + 15 = 66$$

No

ABCDEFGH is a cube.

AG = 8cm

Work out the volume of the cube.

Give your answer to 1 decimal place.

$$EG^2 = x^2 + x^2 = 2x^2$$

$$EG = \sqrt{2x^2}$$

$$AG^2 = x^2 + (\sqrt{2x^2})^2 = 3x^2$$

$\sqrt{3x^2} = AG$

$8 = \sqrt{3x^2}$

$64 = 3x^2$

$x = 4.6188...$

$4.6188...^3 = 98.5 \text{ cm}^3$

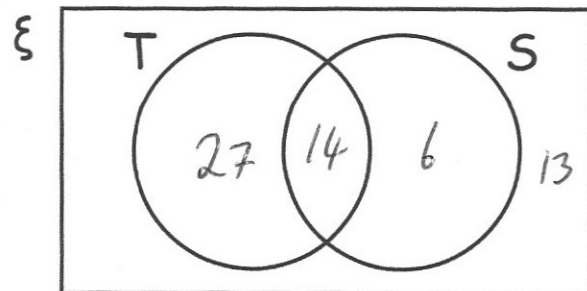
60 people attended a charity coffee morning.

45% of the people had tea without a scone.  $0.45 \times 60 = 27$

13 people had neither tea nor a scone.

70% of the people who had a scone had tea.  $70\% \text{ of } 20 = 14$

Complete the Venn diagram



What fraction of the people had a scone?

$$\frac{20}{60} = \frac{1}{3}$$

What fraction of the people who had tea, did not have a scone?

$$\frac{27}{41}$$