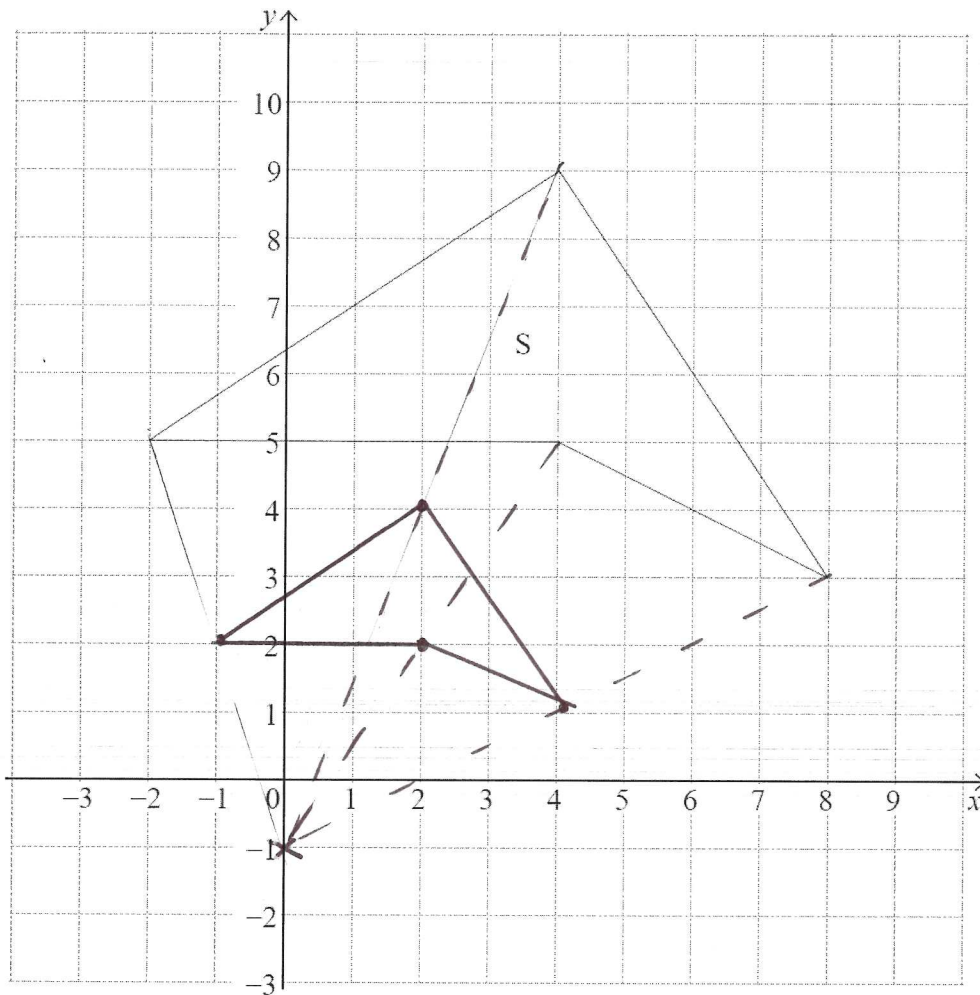


m8 =29 days to go!

5



(a) On the grid above, draw an enlargement of the shape S, using a scale factor of $\frac{1}{2}$ and centre $(0, -1)$. [3]

(b) If the shape S has an area of 20 cm^2 , what is the area of the enlarged shape?

small \longrightarrow big

Lines

$\xrightarrow{\times 2}$

Area $5 \xrightarrow{\times 2^2} 20 \text{ cm}^2$

Answer 5 cm^2 [1]

Lines $\times k$

Area $\times k^2$

Volume $\times k^3$

$$2B \quad 4G \quad 6W = 12 \text{ socks.}$$

12 A drawer contains two blue socks, four grey socks and six white socks.
Two socks are taken at random from the drawer.

What is the probability that

without replacement

(a) they are both grey,

$$P(\text{Grey AND Grey})$$

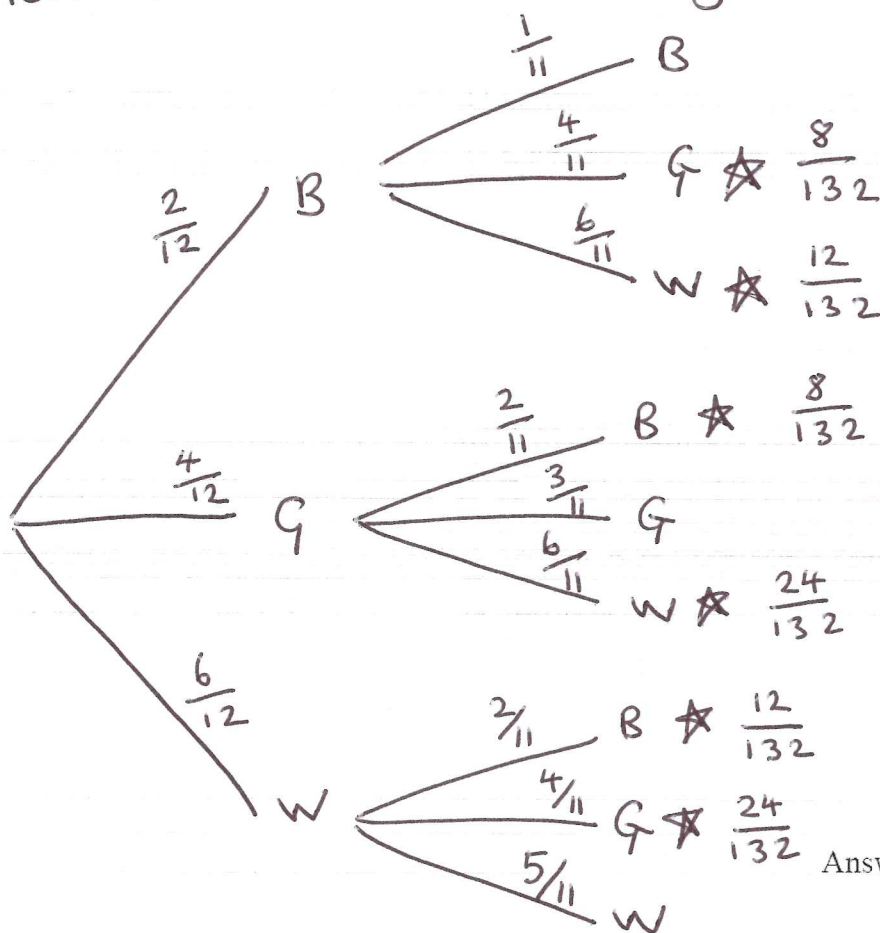
$$= \frac{4}{12} \times \frac{3}{11}$$

$$= \frac{12}{132}$$

Answer $\frac{12}{132} = \frac{1}{11}$ [2]

(b) the two socks are not the same colour as each other?

You could do tree diagram



add the
★

Answer $\frac{88}{132}$ [5]

With probability word "AND" means ×

"OR" means +