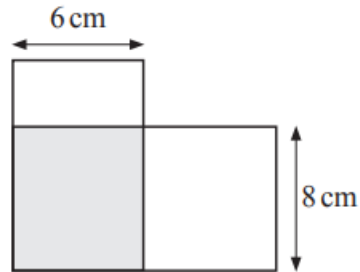


M4 = 12 days to go!

12 A $10\text{ cm} \times 6\text{ cm}$ rectangular card overlaps a $12\text{ cm} \times 8\text{ cm}$ card as shown.

Calculate the area **not** shaded.



Answer _____ cm^2 [2]

15 A Christmas Log cake has a uniform cross-sectional area of 120 cm^2 and a length of 22 cm.

Calculate the volume of the cake.

Answer _____ cm^3 [2]

1 $d = \frac{e-f}{g}$

Calculate the value of d when $e = -8$, $f = 12$ and $g = 4$

Answer $d =$ _____ [2]

12 (a) Factorise fully

$$3x^2 - 27y^2$$

Answer _____ [3]

(b) Simplify fully

$$\frac{3x^2 - 27y^2}{x^2 - 6xy + 9y^2}$$

Answer _____ [3]

3

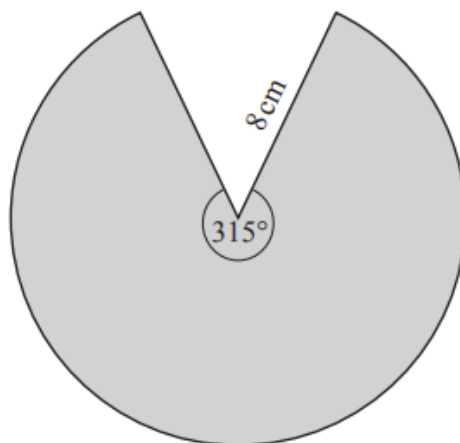


diagram not drawn accurately

Calculate the area of the shaded sector.