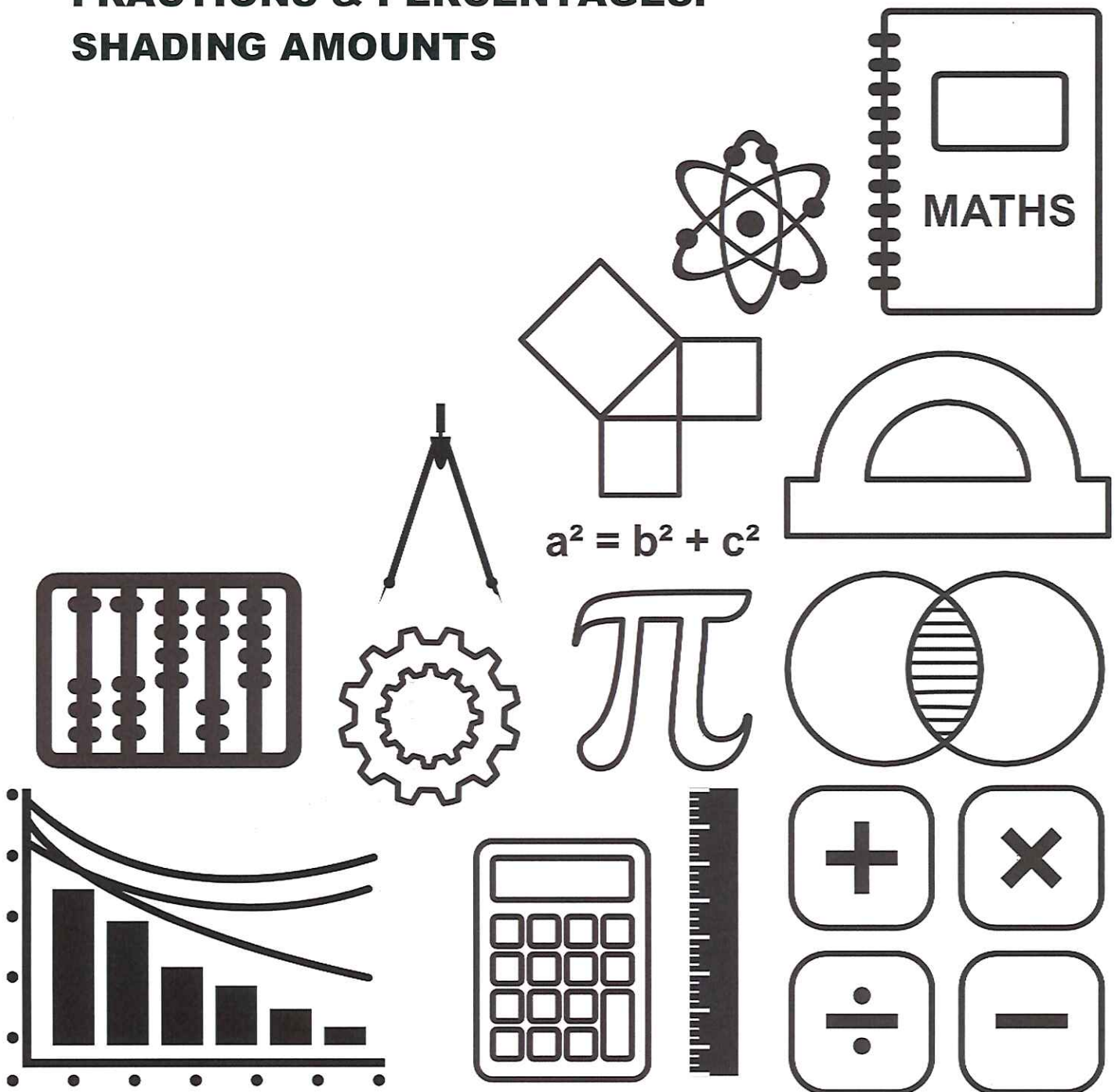


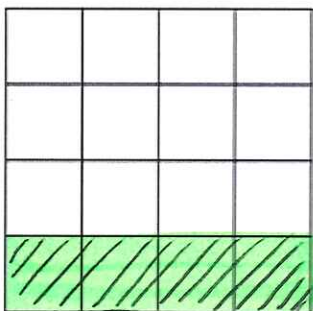
# MATHSDIY

SOLUTIONS

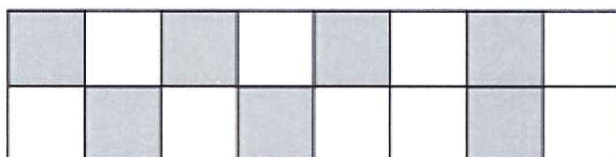
## GCSE TOPIC BOOKLET FRACTIONS & PERCENTAGES: SHADING AMOUNTS



1. (i) Shade 25% of the following figure. =  $\frac{25}{100} = \frac{1}{4}$



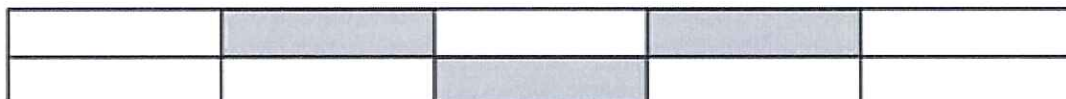
(ii) What fraction of the following shape is shaded?



$\frac{7}{16}$

[2]

2. Write down the percentage of the following shape that has been shaded.



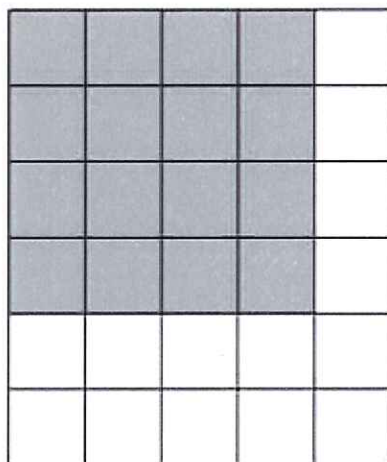
$\left(\frac{3}{10} = \frac{30}{100}\right)$  30%

[1]

3.

What fraction of the following figure is shaded?  
Give your answer, as a fraction, in its simplest form.

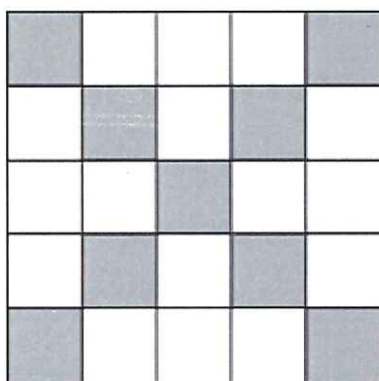
[2]



Shaded fraction =  $\frac{16}{30} = \frac{8}{15}$

4.

(a) What fraction of the following figure is shaded?

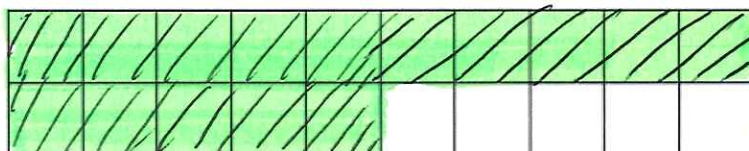


$\frac{9}{25}$

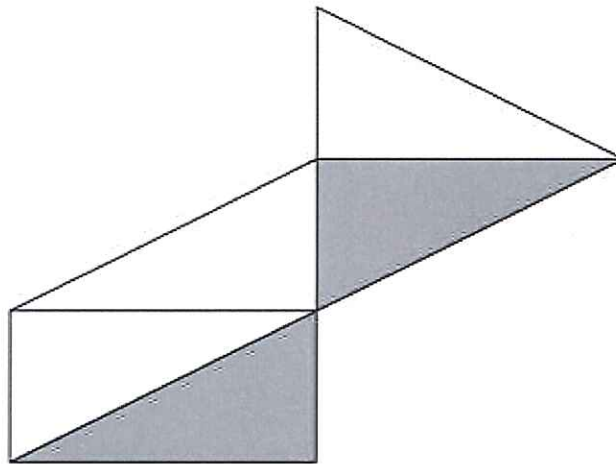
[1]

(b) Shade 75% of the following figure.  $= \frac{75}{100} = \frac{3}{4}$

[1]



5.



$$\begin{aligned} \text{Shaded} &= \frac{2}{5} = \frac{20}{50} \\ &= \frac{40}{100} = \underline{\underline{40\%}} \end{aligned}$$

(i) What percentage of the shape is shaded?

40%

(ii) What percentage of the shape is unshaded?

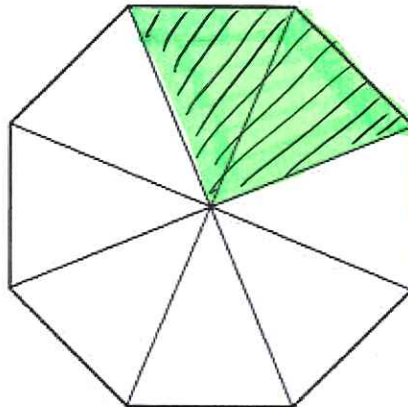
60%

[2]

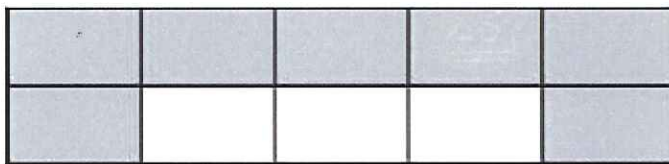
6. Shade 25% of the following figure.

$$= \frac{25}{100} = \frac{1}{4} = \underline{\underline{\frac{2}{8}}}$$

[1]



7.



$$\text{Shaded} = \frac{7}{10} = \underline{\underline{70\%}}$$

(i) What percentage of the above shape is shaded?

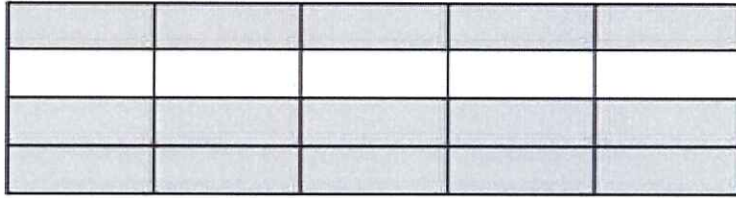
70%

(ii) What percentage of the above shape is NOT shaded?

30%

[2]

8.



$$\underline{\text{Shaded}} = \frac{15}{20} = \underline{\underline{\frac{75}{100}}}$$

(i) What **percentage** of the above shape is NOT shaded?

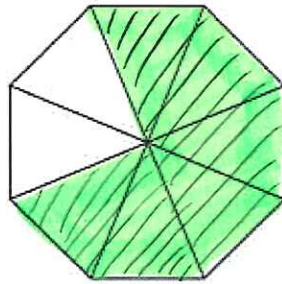
..... 25% .....

(ii) What **percentage** of the above shape is shaded?

..... 75% .....

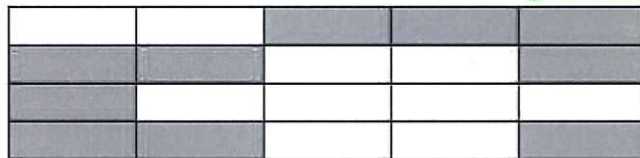
[2]

9. Shade **75%** of the following figure.  $= \frac{75}{100} = \frac{3}{4} = \underline{\underline{\frac{6}{8}}}$



[1]

10. What **percentage** of the following shape is shaded?



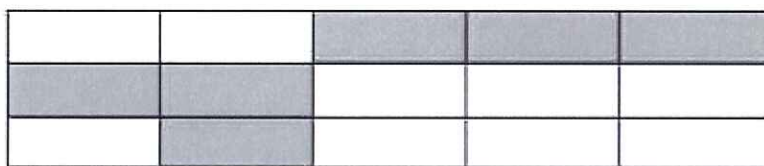
$$\underline{\text{shaded}} = \frac{10}{20} = \underline{\underline{\frac{50}{100}}}$$

..... 50% .....

[1]

11. What fraction of the following shape is shaded?  
Give your answer in its simplest form.

Shaded =  $\frac{6}{15} = \frac{2}{5}$

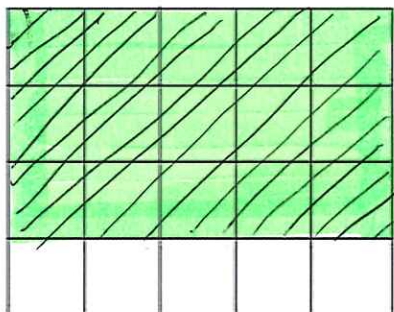


$\frac{2}{5}$

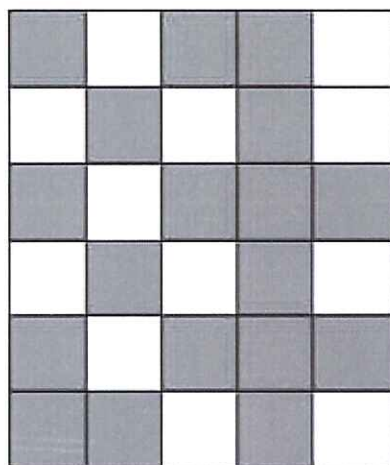
[2]

12. (i) Shade 75% of the following figure.

=  $\frac{75}{100} = \frac{3}{4} = \frac{15}{20}$



- (ii) What fraction of the following figure is NOT shaded? Write the fraction in its lowest terms.



Not Shaded =  $\frac{12}{30} = \frac{4}{10} = \frac{2}{5}$

[3]