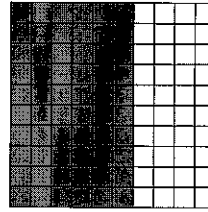


Fractions, decimals and percentages – percentages

Percent means part per hundred and is expressed using the symbol %.

Here, 60% has been shaded grey.

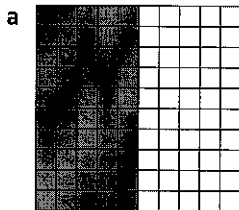
It is the same as 60 hundredths. $\frac{60}{100} = 0.60 = 60\%$



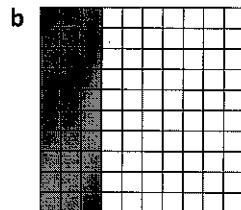
1 Think of at least five times you see the % sign or use percentages:

Answers will vary.

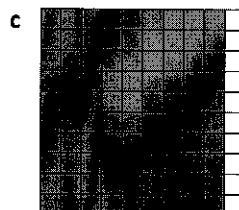
2 Fill in the missing values and shade the grids:



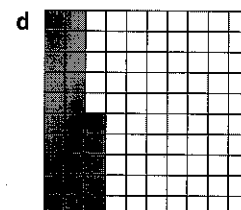
$\frac{50}{100}$ 0.5 50%



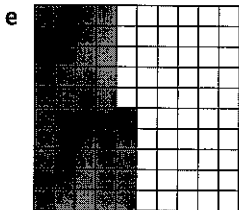
$\frac{30}{100}$ 0.3 30%



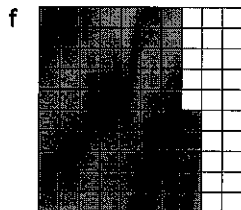
$\frac{90}{100}$ 0.9 90%



$\frac{25}{100}$ 0.25 25%



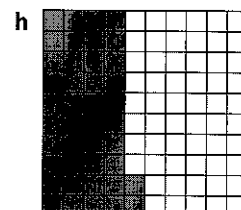
$\frac{45}{100}$ 0.45 45%



$\frac{75}{100}$ 0.75 75%



$\frac{89}{100}$ 0.89 89%



$\frac{42}{100}$ 0.42 42%

3 Are these statements correct?

a 75% is greater than 0.5

True

b One quarter is the same as 50%

False

c 45% is greater than 0.5

False

d 0.42 is equivalent to 425

False

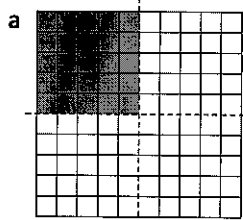
e You score 100% on a test. Your friend scores 20/20. You both received the same score.

True

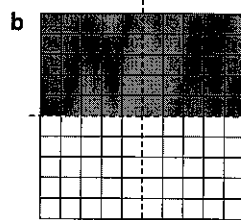
Fractions, decimals and percentages – percentages

It is useful to know some common percentages such as 25%, 50% or 75%.

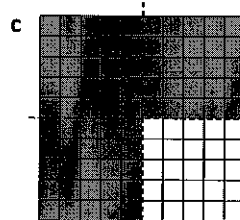
4 Shade the grids and show the following fractions by completing the missing information:



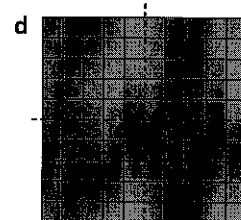
| | | |
|---------------|------|-----|
| $\frac{1}{4}$ | 0.25 | 25% |
|---------------|------|-----|



| | | |
|---------------|------|-----|
| $\frac{1}{2}$ | 0.50 | 50% |
|---------------|------|-----|



| | | |
|---------------|------|-----|
| $\frac{3}{4}$ | 0.75 | 75% |
|---------------|------|-----|

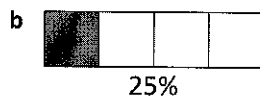


| | | |
|---------------|-----|------|
| $\frac{4}{4}$ | 1.0 | 100% |
|---------------|-----|------|

5 Shade these shapes to show the following percentages:



50%



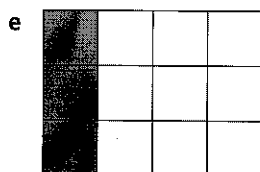
25%



75%



50%



25%



100%

6 James goes on holiday. He has \$100 spending money and spends it as outlined below. Show this on the pie graph and label each section of the pie with the correct percentage:

