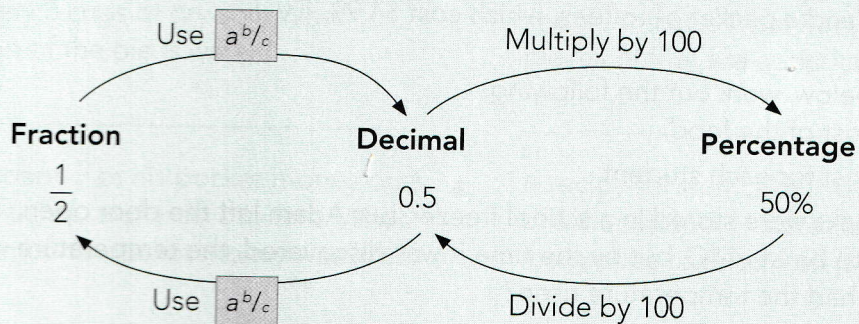




Converting between decimals, fractions and percentages

Fractions are a way of displaying parts of numbers. You can convert fractions into decimals using your calculator with either a^b/c or $\frac{\square}{\square}$ or $S \leftrightarrow D$



Fill in the blanks in the table below.

Fraction	Decimal	Percentage
$\frac{1}{4}$		
	0.75	
		30%
	0.2	
$\frac{3}{5}$		
		68%
	0.12	
$\frac{7}{8}$		
		100%
	2.5	
		4%
	1.2	



Percentages

Calculating percentages

- To turn a fraction into a percentage, multiply by 100.

Example: 47 out of 64 Year 11 girls play sport. What percentage play sport?

$$\frac{47}{64} \times 100 = 73.4\% \text{ (1 dp)}$$

or use the **percentage** button on your calculator:

$$\frac{47}{64} \% = 73.4\% \text{ (1 dp)}$$

Convert these into percentages.

- | | |
|---|--|
| <p>1 There are 14 girls in a class of 25. What percentage are girls?</p> <p>_____</p> | <p>2 It rained on eight days last April. On what percentage of days did it rain?</p> <p>_____</p> |
| <p>3 Nine out of the 20 pieces of fruit in a bowl were bananas. What percentage were bananas?</p> <p>_____</p> | <p>4 Annie was absent from five out of 42 mathematics lessons. For what percentage was she present?</p> <p>_____</p> |
| <p>5 The normal price of a pair of jeans was \$85. In a sale, \$15 was taken off this price. By what percentage were they reduced?</p> <p>_____</p> | <p>6 A muesli recipe requires 6 cups of dry ingredients, 1 cup of which is bran. What percentage of the dry ingredients is bran?</p> <p>_____</p> |
| <p>7 Tamara earned 108 credits in NCEA Level 1. Of these, 21 were excellence credits, 53 were merit, 28 were achieved and 6 were not achieved. Calculate the percentage of each type of credit.</p> <p>_____</p> | |
| <p>8 Eru was doing a survey of vehicles entering the school. Of the 38 vehicles, 22 were private cars, 9 were motor bikes, 4 were taxis and 3 were delivery vans. Calculate the percentage of each type of vehicle.</p> <p>_____</p> | |
| <p>9 When Amelia was in Australia, her bank charged her \$5 per transaction on her eftpos card. Calculate the percentage of the total transaction that she pays the bank when</p> <p>a she buys a \$35 shirt using eftpos.</p> <p>_____</p> <p>b she withdraws \$200 cash using her eftpos card.</p> <p>_____</p> | |