

1 Fractions, decimals, percentages – Part 2

Name: _____ Class: _____ Date: _____

Vocabulary 词汇

Write each word three times. 把每个单词抄写三遍。

English	中文	Write it 3 times (English)
percentage	百分比	_____
fraction	分数	_____

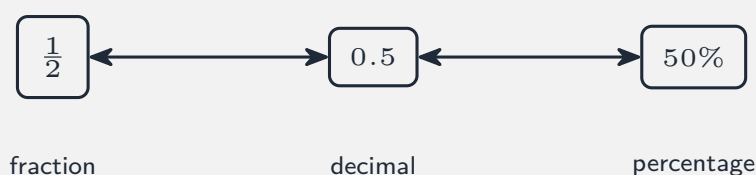
Recall

Fractions, decimals and percentages are three ways of writing the same value.

New ideas

Read these first, then do the Practice.

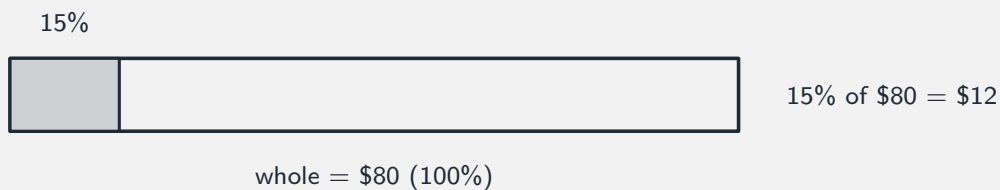
■ 1 Three ways to write a value



- fraction $\rightarrow$ decimal: divide top by bottom ($\frac{3}{8} = 3 \div 8 = 0.375$);
- decimal $\rightarrow$ **percentage** 百分比: multiply by 100 ($0.07 = 7\%$);
- percentage $\rightarrow$ **fraction** 分数: put over 100 ($7\% = \frac{7}{100}$).

■ 2 Percentage of an amount

To find a percentage of an amount, change the percentage to a decimal and multiply:



$$15\% \text{ of } \$80 = 0.15 \times 80 = \$12.$$

Watch out: to turn a decimal into a **percentage**, multiply by 100 (move the point two places); to go back, divide by 100. To find a percentage *of* an amount, change it to a decimal first ($15\% \rightarrow 0.15$) then multiply.

Practice

Try these in order.

1.6 Write $\frac{3}{4}$ as a decimal. [1]

1.7 Write 0.45 as a percentage. [1]

1.8 Write 20% as a fraction in its simplest form. [1]

1.9 Work out 30% of \$50. [2]

1.10 A test is marked out of 25. A student scores 18. Write this score as a percentage. [2]

1.11 Challenge. A jacket costs \$80. In a sale it is reduced by 25%. Work out the sale price. [3]