

1.8 Ratios, Rates and Percentages

- **ratio:** a comparison between two numbers that may or may not have units (*Ex. $a:b$ or $\frac{a}{b}$*)
There are two types of ratios:
Part-to-part ratios is where you compare the amount of one thing to the amount of another.
An example would be if a recipe calls for 3 cups of flour for every 2 cups of milk.
Part-to-whole ratios is where you compare the amount of something to the total.
An example would be comparing the number of girls to the full class of students.
- **percentage:** a ratio with a second term of 100 expressed using the symbol %.
(*Ex. 30% means 30 out of 100*); can be represented by a fraction with a denominator of 100.
(*Ex. $30\% = \frac{30}{100}$*)
- **proportion:** the equivalence of two or more ratios. (*Ex. $\frac{1}{2} = \frac{2}{4}$*)
- **rate:** a comparison between two numbers that have different units. (*Ex. Speed 60km/h or 2 miles/20 minutes*)
- **unit rate:** a rate where the second unit is equal to one. (*Ex. Speed limits: 80km per one hour*)

Percentages:

1. Express each of the following as a percentage.

a) $\frac{32}{50}$	b) $\frac{18}{23}$	c) $\frac{19}{30}$

2. Determine the value of each of the following:

a) 25% of 40	b) 7% of 300	c) 35.4% of 220

3. A computer that has a regular price of \$895.99 is on sale for 20% off.

a) Determine the price of the computer after the discount is applied (excluding tax).	b) Determine the cost of the discounted computer after tax (13% HST).
	To find the amount of tax ONLY, we multiply by $\frac{13}{100} = 0.13$ To find the TOTAL cost with tax, we multiply by 1.13

Rates:4. How would you express each as a **unit rate**?

a) 70 cm of snow in 9 hours

b) \$1.95 for 5 folders

Number Sense Ratios Proportions And Percentages

Huangqi Zhang



Number Sense Ratios Proportions And Percentages:

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