

\* Ratios: is a comparison

↳ 3 ways to write a ratio + 3 types of ratios

① Part to Part ② Part: Whole

③ Whole Part  
[ex] There are 6 girls in the class. There are 7 boys in the class. Write the ratio of girls to class.

$$\textcircled{6:13} \quad \frac{7}{13}$$

\* Unit Rate

↳ finding the cost of 1 item / pound / ounce / ....

↳ use division

PER  $\nearrow$  Cost  
item

[ex] Walmart is having a sale on DVDs. The sale price is 6 DVDs for \$15. How much does 1 ~~DVD~~ DVD cost?

$\textcircled{\$2.50 / \text{DVD}}$

$$\begin{array}{r} 2.5 \\ 6 \overline{) 15.00} \\ \underline{-12} \phantom{00} \\ 30 \phantom{0} \\ \underline{-30} \\ 0 \end{array}$$

# \* Ratio Tables

↳ is a table used to compare ratios

**ex** A cupcake from Gigi's cost \$3. An icecream from Brusters costs \$4. Complete the ratio table.

cupcake	\$
1	\$3
2	\$6
3	\$9
4	\$12

icecream	\$
1	\$4
4	\$16
8	\$32
12	\$48

# \* Percents

↳ part of 100

$$\frac{\text{Is}}{\text{of}} = \frac{\%}{100}$$

① 6% of 30

$$\frac{?}{30} = \frac{6}{100} \quad \begin{array}{l} 180 = 100 \times \_ \\ \div 100 \quad \div 100 \\ = 1.8 \end{array}$$

② 20 is 40% of ?

$$\frac{20}{?} = \frac{40}{100} \quad \begin{array}{l} 40 \times \_ = 2000 \\ \div 40 \quad \div 40 \\ = 50 \end{array}$$

③ ~~300~~ 3 is what % of 12?

$$\frac{3}{12} = \frac{?}{100} \quad \begin{array}{l} 300 = 12 \times \_ \\ \div 12 \quad \div 12 \\ = 25 \end{array}$$

\* to change a fraction to a decimal, just divide

$$\frac{3}{4} \quad \begin{array}{r} .75 \\ 4 \overline{) 3.00} \end{array}$$