Math Common Core State Standards 6th Grade

Ratios & proportions, division, integers, expressions & equations, properties, volume, area, data analysis, probability & more!

RATIOS & PROPORTIONS

Ratio: Compares two numbers by division; expressed in one of these ways: 3:2, 3 to 2, or $\frac{3}{2}$; ratios can be shown in different ways:

- **Part to part:** The ratio of white stars to gold stars is $\frac{2}{6} = \frac{1}{3}$.
- **Part to whole:** The ratio of white stars to the total number of stars is $\frac{2}{8} = \frac{1}{4}$.
- **Whole to whole:** The number of circles to the number of stars is $\frac{9}{8}$.

Rate: A ratio comparing two numbers representing different units by division; rates must have labels; unit rate has a denominator of 1;
  EX: 16 miles per gallon

Percent (%): Means "out of 100", a ratio comparing a number to 100

Proportions: Two equal ratios; if two ratios are equal, then their **cross products** are equal
  EX: $\frac{2}{3} = \frac{4}{6}$, so $2 \times 6 = 3 \times 4$, and $12 = 12$

Percent Ratios

x is what percent of y?

Solve using: $\frac{is}{of} = \frac{\%}{100}$

so, $\frac{x}{y} = \frac{x}{100}$

EX: What is 60% of 90? $\frac{x}{90} = \frac{60}{100}$

1,000 is what percent of 500? $\frac{1,000}{500} = \frac{x}{100}$

20 is 75% of what number? $\frac{20}{x} = \frac{75}{100}$

Speed formula:

$v = \frac{d}{t}$, where: v = speed (rate); d = distance; t = time

A car travels at a constant speed of 65 miles per hour. How far will the car travel in 3.5 hours?

$\frac{65\text{ mph}}{1} = \frac{d}{3.5\text{ hours}}$

$65 \times 3.5 = 227.5$ miles

The car will travel 227.5 miles in 3.5 hours.

Equivalent Ratios

Legs	4	8	12	16	20
Cows	1	2	3	4	5
Ratio	1:4	2:8	3:12	4:16	5:20

Seconds	60	120	180	240	300
Minutes	1	2	3	4	5
Ratio	1:60	2:120	3:180	4:240	5:300

Minutes	60	120	180	240	300
Hours	1	2	3	4	5
Ratio	1:60	2:120	3:180	4:240	5:300

Hours	24	48	72	96	120
Days	1	2	3	4	5
Ratio	1:24	2:48	3:72	4:96	5:120

Days	7	14	21	28	35
Weeks	1	2	3	4	5
Ratio	1:7	2:14	3:21	4:28	5:35

Weeks	4.3	8.6	12.9	17.2	21.5
Months	1	2	3	4	5
Ratio	1:4.3	2:8.6	3:12.9	4:17.2	5:21.5

Months	12	24	36	48	60
Years	1	2	3	4	5
Ratio	1:12	2:24	3:36	4:48	5:60

Rate Conversions

To change 4 kilometers per minute to kilometers per hour:

$\frac{4\text{ km}}{1\text{ min}} \times \frac{60\text{ min}}{1\text{ hr}} = 240\text{ km/hr}$

To change 120 ounces per square inch to pounds per square foot:

$\frac{120\text{ oz}}{1\text{ in}^2} \times \frac{144\text{ in}^2}{1\text{ ft}^2} \times \frac{1\text{ lb}}{16\text{ oz}} = \frac{(120 \times 144)\text{ lb}}{16\text{ ft}^2} = 1,080\text{ lb/ft}^2$

EX: Madeline works 60 hours every 3 weeks. At this rate, how many hours will Madeline work in 12 weeks?
First, find the unit rate:

$\frac{60}{3} = \frac{20}{1}$

$20 \times 12 = 240$

Madeline will work 240 hours in 12 weeks.

Pens are being sold at a price of 3 pens for $2.70. How much would 10 pens cost?
First, find the unit price:
$2.70 ÷ 3 = $0.90
$0.90 × 10 = $9.00
Ten pens would cost $9.00.

DIVISION

Dividing Fractions

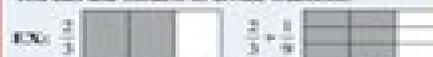|	
Need common denominator?	No
Use a mixed number?	No, change to improper fraction
Cross cancel?	Yes
Use the reciprocal?	Multiply by the reciprocal
Process	"Keep it, change it, flip it"; then use multiplication rules
Reduce (simplify) to lowest terms?	Yes

EX: $\frac{5}{9} \div \frac{4}{9} = \frac{5}{9} \times \frac{9}{4} = \frac{5}{4} = 1\frac{1}{4}$

$\frac{3}{5} \div \frac{2}{3} = \frac{3}{5} \times \frac{3}{2} = \frac{9}{10}$

$\frac{7}{3} \div \frac{18}{5} = \frac{7}{3} \times \frac{5}{18} = \frac{8}{3} \times \frac{2}{5} = \frac{8}{15}$

You can use models to divide fractions:

EX: $\frac{2}{3}$

$\frac{2}{3} \div \frac{1}{9}$

There are six $\frac{1}{9}$ in $\frac{2}{3}$, so $\frac{2}{3} \div \frac{1}{9} = 6$.

Jane is making bows that require $2\frac{3}{4}$ feet of ribbon each. How many bows can Jane make if she has a spool of ribbon with $7\frac{1}{2}$ yards of ribbon on it?

$\left(\frac{15}{2} \times \frac{3}{1}\right) \div \frac{11}{4} = \frac{45}{2} \times \frac{4}{11} = \frac{90}{11} = 8\frac{2}{11}$

Jane can make 8 bows and will have $\frac{2}{11}$ feet of ribbon left over.

Dividing Multi-Digit Numbers

- Write the problem in long-division format
- Use compatible numbers to predict the first digit
- Multiply
- Subtract
- Bring down the next digit, if there is one
- Repeat the process until the number is too small to divide
- Record the remainder

6th Grade Math Study Guide

Thirumalaisamy P. Velavancorresponding

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