# Common Core

State Standards





#### RATIOS & PROPORTIONS

Raties Companys two numbers by division: expressed in one of three ways: 3:2, 3 to 2.

or 2; rather can be shown in different ways:



- · Part to part: The ratio of white stars to gold
- . Part to whole: The ratio of white stars to the total number of stars is  $\frac{2}{\pi} = \frac{1}{4}$
- · Whole to whole: The number of circles to the mumber of stars in it

Rate: A ratio comparing two numbers representing different units by division; rates must have habelic unit rate bus a decominator of It-EX: 18 miles per gallon.

Percent (%)s: Means "out of 100"; a ratio comparing a much ber to 200

Perperties: Two equal ratios; if two ratios are count, then their errors products are your

EN:  $\frac{2}{3} \log \frac{4}{6}$ , so 2 = 6 = 3 = 4, and 12 = 12

#### Percent Ratios

y in what personnt of s?

Solve using: 
$$\frac{dr}{dr} = \frac{S_0}{100}$$
  
 $\frac{2}{y} = \frac{z}{100}$ 

EX: What is 60% of 907 -

1,000 is what persons of 5000 1,000 x

20 is 75% of what number? 20 ... 15

#### Second Servender:

A continued out at Company speed of All mallers per house. How for will the our top-of in 3.5 hours?

63 mg	di.		di.	
		3.3	ben	-
65 N 3	25-	1227	250	and the same

The car will proved 227.5 policy in 3.5 hours.

#### Equivalent Ratios

Logo	100	1	10	100	36
Cherry	0.00	100	1		- 1
Bartin	1-0	7.39	3.12	4.50	1.00

Nements	100	1.00	196	200	Total .
-	2011	1000	100	100.00	100
Balle	1.00	25.530	3.796	4340	31,000

Shown .		2.0	100	100	
Batte	13,660	REAL PROPERTY.	3.000	34300	3300

Batte	3.34	296	100	100	9.100
Begg	No. 144	194	- 31	291	0.99
Wante		100	- 1	100	1.5
Butter	1.80	(2.54)	1,000	4.28	1,3300

Street	1435	0.61	1000	DOM:	1000
Months	200	100	100	100 A 100	100
Section 1	196.30	DESCRIPTION OF THE PERSON OF T	2000	EXCESS OF	200.0

The second second					
March	1.10	234.0	180	- 86	1.00
Steparts	-1-	1.2	50.00		1.3
Badle	110.2	July 1	10.00	4.40	2000

#### Rate Conversions

To change 4 killometers per minute to killemeters per bourt.

To change 120 owners per square inch to pounds per square from:

$$\frac{(2m_{_{\rm B}})^2}{(2m_{_{\rm B}})^2} = \frac{144}{148} \frac{(4m_{_{\rm B}})^2}{(4m_{_{\rm B}})^2} + \frac{(4m_{_{\rm B}})^2}{(4m_{_{\rm B}})^2} + \frac{(4m_{_{\rm B}})^2}{(4m_{_{\rm B}})^2} \frac{(4m_{_{\rm B}})^2}{(4m_{_{\rm B}})$$

EX: Madeline works 60 hours every 3 weeks. At this rate, how many booms will Madeline month in 12 works?

First, find the unit rate:

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

$$20 \times 12 = 240$$

Madeline will work 240 boors 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:

52.70 + 3 - 50.90\$0.90 × 10 - \$9.00

Ties pers would cost \$9:00.

#### DIVISION

#### **Dividing Fractions**

Nord common denominator?	No
Use a mixed number?	No, change to improper fraction
Cress cancel?	Time
Use the reciprocal?	Multiply by the reciprocal
Process	"Koop it, change it, flip it"; then one multiplication rules
Reduce (simplify) to	

#### Benefit Service?

$$3\frac{3}{5} + 2\frac{7}{8} + \frac{18}{3} + \frac{43}{8} + \frac{26^{\circ}}{3} + \frac{8}{46^{\circ}} + \frac{2}{5} + \frac{8}{7} + \frac{19}{2}$$

You can use models to divide fractions





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

Same in making hower than require 2 then of ribbon such.

How many hows can June make if she has a spoul of ribbon with 7 gards of elithers on left

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

Asser can make 8 bown and will have - feet of ribbon hell west.

#### **Dividing Multi-Digit Numbers**

- · Morine the produtions in Bong division format Use compatible numbers
- to predict the first digit Multiply · Substitute.
- Belong shown the next alight. 16 shore in one Repeat the process sent?
- the number is too small. no divide
- Record the symulation



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