

Warm up

back of p. 33

Express the prime factorization of each number in exponential form.

64

152

Find the GCF and LCM of each number.

56, 72

24, 36



Using the slide method to determine the GCF, LCM and fraction in lowest terms

NAME _____

The Slide Method for GCF and LCM

DIRECTIONS: Examine the method shown below for finding the *greatest common factor*, *least common multiple*, and the *fraction in simplest form*.



a common factor- 4	56	72
a common factor- 2	14	18
	7	9

A) To find the *GCF*, multiply the number outside the steps of the slide on the left side of the table: ($4 \times 2 = 8$). (B) To find the *LCM*, multiply all of the numbers outside of the step of the slide's border and bottom of the slide: ($4 \times 2 \times 7 \times 9 = 504$). (C) The fraction $\frac{56}{72}$ will be shown in simplest form by the two numbers underneath the slide. Therefore, the fraction is $\frac{7}{9}$ is in simplest form.

		GCF	LCM	Simplest form
1.	15, 30	15	30	1,2
2.	24, 36	12	72	2,3
3.	40, 62	2	1240	20,31
4.	12, 18	6	36	2,3
5.	54, 72	18	216	3,4
6.	64, 120	8	960	8,15
7.	42, 112	14	336	3,8
8.	64, 152	8	1216	8,19
9.	24, 56	8	168	3,7

		GCF	LCM	Simplest form
10.	12, 15	3	60	4,5
11.	20, 36	4	180	5,9
12.	12, 16	4	48	3,4
13.	15, 25	5	75	3,5
14.	20, 32	4	160	5,8
15.	18, 27	9	54	2,3
16.	30, 80	10	240	3,8
17.	33, 44	11	132	3,4
18.	12, 20	4	60	3,5

GCF/LCM Word Problems

p 36

1. Rebecca has 20 table tennis balls and 16 table tennis paddles. She wants to sell packages of balls and paddles bundled together. What is the greatest number of packages she can sell with no leftover balls or paddles?
2. Mr. Nicolet wants to organize equal-sized groups of boys and girls for tumbling exercise. If there are 12 boys and 18 girls and each group is all boys or all girls, what is the largest size group he can organize?
3. A scouting troop has three boards of lengths 14 feet, 28 feet, and 21 feet. If the boards must be cut to produce equal-sized pieces, what is the longest piece that can be cut with no waste?

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4. In a promotion for a local delicatessen, every eighth customer will get a free sandwich and every sixth customer will get a free drink. Which customer will be first to get both a free sandwich and a free drink?



5. Faith spent the same amount of money on digital downloads as she did on CD's. If digital downloads cost \$12 and CDs cost \$16, what is the least amount of money she could have spent on each?

$$\begin{array}{r} 4 \overline{)12, 16} \\ \underline{3 \ 14} \end{array}$$

6. At a party store, paper cups come in packages of 15, paper plates come in packages of 30, and napkins come in packages of 20. In order to have the same number of cups, plates, and napkins, what is the least number of each that must be purchased?

15	30	20
30	<u>60</u>	40
45		60
<u>60</u>		

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Quiz

Google Classroom - lesson and activities for Fraction, Decimal and Percent

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CONVERTING

Fractions-Decimals-Percents

FRACTION	DECIMAL	PERCENT
$\frac{9}{16}$	0.5625	56.25%
$\frac{84}{100} = \frac{21}{25}$	0.84	84%

REPEATERS Decimals with a repeating digit can be written with a bar to show the repetition. The denominator for these fractions is always 9!

$\overline{.4}$

PRACTICE! Complete the chart below.

FRACTION	DECIMAL	PERCENT
$\frac{9}{20}$		
		5%
	0.26	
$\frac{11}{28}$		
		38%
$1\frac{1}{9}$		
	0.7	
$\frac{4}{5}$		
		96%
	1.48	
		$55.\overline{5}\%$
	$2.\overline{3}$	

