

Problem Solving

- 5. PRACTICE Use Math Tools Demont used 4 gallons of gasoline in three days driving to work, Each day he used the same amount of gasoline. How many gallons of gasoline did he use each day?
- 6. Suzanne made 2 gallons of punch to be divided equally among 10 people. How much of the punch did each person receive?



Brain Builders

- 7. The baseball team is selling 30 loaves of banana bread. Each loaf is sliced and equally divided into 12 large storage containers, if each slice is the same size, how many loaves of banana bread are in each container? Between what two whole numbers does the answer lie?
- 8. PRACTICE Reason You know that if 15 \div 3 = 5, then $5 \times 3 = 15$. If you know that $7 \div 8 = \frac{7}{8}$, what can you conclude about the product of $\frac{7}{8}$ and 8? Explain.
- Building on the Essential Question. How can division be represented by using a fraction? Give a real-world example.
- 554 Chapter 8 Fractions and Occimals

Number and Operations – Fractions

Lesson 1

Fractions and Division

Homework Helper



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Two truckloads of mulch are used to cover seven playground areas. Each playground receives the same amount of mulch. How much mulch does each playground receive?

Two truckloads are divided to cover seven playgrounds.

1	2	3	4	5	6	7
1	2	3	4	6	6	7

Each playground receives $\frac{2}{7}$ of a truckload.

So,
$$2 \div 7 = \frac{2}{7}$$
.

This number is between the whole numbers 0 and 1.

Practice

 Three pounds of potatoes make eight equal-size servings of mashed potatoes. How many pounds of potatoes are in each serving? Represent the situation with a model. Then solve.

Each serving uses

pound of potatoes.

The answer is between the whole numbers ____

and _

Lesson 1 My Homework 555



- 3. Four gallons of paint are used to paint 20 chairs and 5 small tables. If each chair and table used the same amount of paint, how many gallons are used to paint each piece of furniture? Between what two whole numbers does your answer ite?
- Mathematical, 4. PRACTICE Make Sense of Problems Mrs. Larsen made 12 pillows from 16 yards of the same fabric. How much fabric was used to make each pillow? Between what two whole numbers does your answer le?

How many feet of fabric are needed for each pillow?

Vocabulary Check



5. Fill in each blank with the correct word to complete the sentence.

The numerator is the number in a fraction, while the denominator is the number in a fraction.

- 6. Test Practice Elena drank 5 bottles of water over 7 voileyball practices. How much water did Elena drink each practice if she drank the same amount each time?
 - 3 $\frac{2}{7}$ bottle 5 bottle

 - $\textcircled{8} \frac{2}{5}$ bottle $\textcircled{0} \frac{7}{5}$ or $1\frac{2}{5}$ bottles
- 556 Need more practice? Deport and Extra Practice at seconnectED, megraw-hill.com

Name

Greatest Common Factor

Number and Operations - Fractions

Preparation for \$.NF.2

ESSENTIAL QUESTION

How are factors and multiples helpful in solving problems?

Factors shared by two or more numbers are called common factors. The greatest of the common factors of two or more numbers is the greatest common factor (GCF) of the numbers.



Math in My World



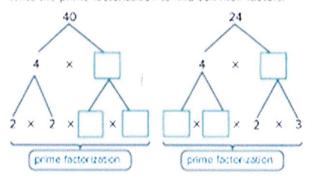


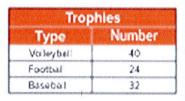


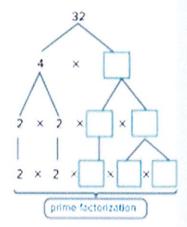
Example 1

Sevierville Middle School arranges their sports trophies in rows in a display case. There is an equal number of trophies in each row. Each row has only one kind of trophy. What is the greatest possible number of trophies in each row?

Write the	orme	factorizat	on to f	ind come	mon factors.







The common prime factors are 2, 2, and 2.

Multiply to find the GCF.

____ × ___ × ___ or ___

So, the greatest number of trophies that could be placed in each row is _____

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Lesson 2 557

Find the GCF of 60 and 54.

Make an organized list of the factors for each number. Then circle the common factors,

60. 1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, 60

54: 1, 2, 3, 6, 9, 18, 27, 54

The common factors are _____, ____, and _____.

So, the greatest common factor, or GCF, of 60 and 54 is

Guided Practice

Find the GCF of each set of numbers.

- 1, 8, 32
 - 8
 - 32

The common factors are _____, ____, and _____.

So, the GCF of 8 and 32 is

2. 3. 12. 18

3:

12:

18:

The common factors are _____ and ____.

So, the GCF of 3, 12, and 18 is

558 Chapter 8 Fractions and Decimals

John MATTER

Explain which method you prefer to find the GCF of two numbers.

Independent Practice



Find the GCF of each set of numbers.

3. 24, 60

4, 12, 18

5. 18, 42

6. 30, 72

7. 4, 10, 14

8. 14, 35, 84

9. 9. 18. 42

10. 16, 52, 76

Name



Number and Operations - Exactions

Preparation for \$,NF,2

Lesson 2

Greatest Common Factor

Homework Helper

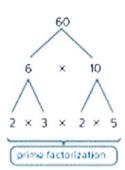


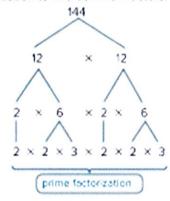
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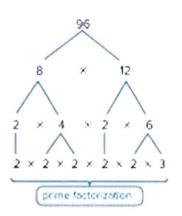
The table shows the amount of money Ms. Ayala made over three days selling 4-inch × 6-inch prints at an arts festival. Each print costs the same amount. What is the most each print could have cost?

Ms. Ayala's Artwork			
Day	Cost (\$)		
Friday	60		
Saturday	14-1		
Sunday	96		

Write the prime factorization to find common factors.







The common prime factors are 2, 2, and 3.

Multiply to find the GCF.

 $2 \times 2 \times 3 \approx 12$

So, the greatest cost of each print would be \$12.

Practice



1. 21. 30

2. 12, 30, 72

Lesson 2 My Hammonik 561

Brain Builders

 PRACTICE Justify Conclusions. The GCF of any two even numbers is always even. Determine whether the statement is true or folse. If true, explain why. If false, give a reason.

Vocabulary Check



- Circle the correct term that makes the sentence true.
 The (greatest, least) of the common factors of two or more numbers is the (greatest, least) common factor of the numbers.
- 6. Test Practice Deremiah will give away all of his sports cards to a number of his friends. What is the greatest number of friends he can give his cards to so that each friend will receive an equal number of baseball cards and football cards?

Sports Cards				
Type	Number			
Baseball	32			
Footbal	24			

- A friends
- (C) 12 friends
- (E) 8 friends
- 16 friends
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If you have access to a computer and are working on USATestPrep online, you do NOT have to complete this worksheet.

Name: Teacher: Class: Date:

Directions: Compute the sum or difference. Simplify your answer. Show all work.

1.
$$\frac{1}{4} + \frac{2}{4}$$

7.
$$\frac{2}{11} + \frac{4}{11}$$

2.
$$\frac{7}{13} - \frac{5}{13}$$

8.
$$\frac{13}{14} - \frac{7}{14}$$

3.
$$\frac{3}{5} + \frac{2}{5}$$

9.
$$\frac{2}{15} + \frac{3}{15}$$

4.
$$\frac{7}{8} - \frac{1}{8}$$

$$10.\frac{5}{10} - \frac{3}{10}$$

5.
$$\frac{19}{35} + \frac{6}{35}$$

$$11.\frac{3}{42} + \frac{4}{42}$$

6.
$$\frac{17}{36} - \frac{4}{36}$$

$$12.\frac{55}{75} - \frac{30}{75}$$

USATEST PREP

Your Classroom Partner
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$$3\frac{1}{8} + 2\frac{1}{2} = \underline{\hspace{1cm}}$$

- 2 10,985 + 2,785
- Write the percent form of each fraction.

•				
2		400		
Harris St.	135.	_	_	200

7 ____

4 _

- What is the least common multiple (LCM) of 6 and 10?
- 5 Draw and label a Venn diagram that shows the intersection of the sets below.

WEEK 10 DAY 2

Daily Math Practice

- 495,783 - 62,016
- What is the chance, or probability, of spinning a 3?



- O 1 in 6
- O 2 in 3
- O 1 in 3

- 4 Simplify the expression (6 x 2) 4.
- What is the average score per game?

Game	Points
1	69
2	48
3	57
ц	70
5	66

Daily Math Practice

- If Olivia buys six 12-packs of fruit snacks for \$14.40, how much does each fruit snack cost?

Write the number in standard form.

one hundred six thousand forty

Complete the table and explain the rule.

Input	Output
2	ц
3	9
4	16
5	
6	
7	

WEEK 10 DAY 4

Daily Math Practice

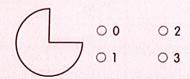
- 810 ÷ 9 = ___
- 64)1,600

64)3,200

64)4,800

- Mark the units that measure length.
 - O hectogram
- O millimeter
- O kilometer
- O deciliter
- O centimeter
- O kilogram

How many lines of symmetry does the figure have? Draw it.



Elijah is planning a picnic. He will invite twice as many boys as girls. If he invites 18 people, how many boys and how many girls will get invitations?

boys ____ girls ____

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> Activity 1

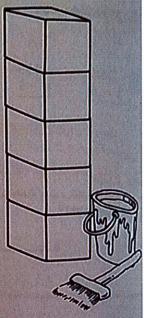
Wyatt is painting boxes that are stacked one on top of the other.

He paints only the sides (not the top or bottom) of each box. He will, however, paint the top of the box at the very top of the stack.

Complete the function table to show how many faces Wyatt will paint on each stack of boxes.

Number of Boxes	Faces to Paint
3	
5	
18	
n	1

What is the rule?



> Activity 2

Complete the function tables.

Input	Output
2	15
3	25
	55
9	
13	
22	215

What is the rule?

Input	Output
12	10
	16
32	
62	35
70	39
86	

What is the rule?

36

Daily Math Practice - EMC 754 - O Evan-Mon