

UCLA

Name: _____

Date: _____

Ms. Napolitano

Activity 2.2 (Day 2)

Activity #: 2.2

Topic: Review of Module 2


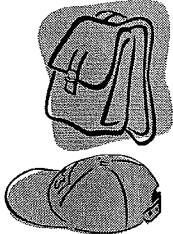
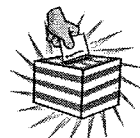
EQ: How can you find and use the greatest common factor or the least common multiple of two whole numbers?
I can find and use the greatest common factor (GCF) or the least common multiple (LCM) of two whole numbers.

CCSS: 6.NS.4

REAL WORLD APPLICATIONS

Procedures Group Work:

1. Each pair will be assigned to one of the following questions below.
2. Read over the question independently.
3. Begin discussing your assigned question with your partner.
4. Answer all of the questions on the following page.
5. Be prepared to present your question with the entire class.

Questions	Work Shown.								
<p>1) Mika wants to create snack bags for a trip she is going on. She has 28 granola bars, 42 pieces of dried fruit, and 56 pretzels. If the snack bags should be identical without any food left over, what is the greatest number of snack bags Mika can make?</p>									
<p>2) Justin goes to the grocery store every 8 days, visits the gym every 11 days, and gets his car washed every 36 days. If he did both errands today, how many days will pass before he does both on the same day again?</p>									
<p>3) Gregorio is planting 15 bushes, 6 trees, and 48 flowers in rows. If he wants all the rows to be exactly the same, with no plants left over, what is the greatest number of rows Gregorio can plant?</p>									
<p>4) The amusement park is celebrating their anniversary by giving out gifts to visitors as they enter. They have come up with the following plan:</p> <p style="text-align: center;">Free Gifts</p> <div style="display: flex; align-items: center; justify-content: space-around;"> <div style="text-align: center;">  </div> <table border="1" style="border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="padding: 5px;">Items</th> <th style="padding: 5px;">Free Gift</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">Hat</td> <td style="padding: 5px;">Every 2nd visitor</td> </tr> <tr> <td style="padding: 5px;">T-shirt</td> <td style="padding: 5px;">Every 7th visitor</td> </tr> <tr> <td style="padding: 5px;">Backpack</td> <td style="padding: 5px;">Every 10th visitor</td> </tr> </tbody> </table> <div style="text-align: center;">  </div> </div> <p>What visitor will be the first to receive a hat, t-shirt, and backpack?</p>	Items	Free Gift	Hat	Every 2nd visitor	T-shirt	Every 7th visitor	Backpack	Every 10th visitor	
Items	Free Gift								
Hat	Every 2nd visitor								
T-shirt	Every 7th visitor								
Backpack	Every 10th visitor								
<p>5) U.S. senators are elected for six-year terms, and U.S. presidents are elected for four-year terms. One of the Senate seats in the state of Massachusetts was up for election in 2008, the same year President Obama was elected. What is the next year the same Senate seat will be up for election and a presidential election will take place?</p>									

Independent Practice:

1. Televisions are delivered to Anchor TV every 5 days. DVD players are delivered every 7 days. Both televisions and DVD players are delivered on Monday of this week. In how many days will both televisions and DVD players be delivered on the same day?

Part A: Show your work.

Part B: State your solution below.

2. Pencils come in packages of 10. Erasers come in packages of 12. Phillip wants to purchase the smallest number of pencils and erasers so that he will have exactly 1 eraser per pencil. How many packages of pencils and erasers should Phillip buy?

Solution: _____

3. Boxes that are 12 inches tall are being stacked next to boxes that are 18 inches tall. What is the shortest height at which the two stacks will be the same height?

Solution: _____

4. At a display booth at the circus, every visitor gets a gift bag. Some of the bags have items in them as shown in this table.

Items in the Gift Bags

Items	Bags
Cotton Candy	Every 3 rd visitor
Popcorn	Every 5 th visitor
Stuffed Animal	Every 10 th visitor

How often will a bag contain all three items?

Solution: _____

5. Francois, Josue, and Franklin are running laps at recess. Francois takes 2 minutes to run a lap, Josue takes 3 minutes to run a lap, and Franklin takes 4 minutes to run a lap. How many minutes before they are all at the starting point again? How many laps will each boy have run?

Solution: _____

6. Melanie and Anthony are setting up for a party. They bought plates in packages of 9 and forks in packages of 8. How many packages do they need to buy to get equal numbers of plates and forks?

Solution: _____

7. Find the LCM of 3, 6, and 9

The LCM is _____.

What is the LCM of 5, 9, and 18?

Answer _____

What is the GCF of 16, 40, and 72?

Answer _____

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MIT

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I can find and use the greatest common factor (GCF) or the least common multiple (LCM) of two whole numbers.

Homework

Find the GCF of each pair of numbers.

1. 20 and 32 _____

2. 24 and 56 _____

3. 36 and 90 _____

4. 45 and 75 _____

5. 28 girls and 32 boys volunteer to plant trees at a school. The principal divides the girls and boys into identical groups that have girls and boys in each group. What is the greatest number of groups the principal can make? _____

Write the sum of the numbers as the product of their GCF and another sum.

6. $32 + 20$ _____

7. $18 + 27$ _____

Find the LCM of each pair of numbers.

8. 6 and 12 _____

9. 6 and 10 _____

10. 8 and 9 _____

11. 9 and 12 _____

12. Juanita runs every third day and swims every fifth day. If Juanita runs and swims today, in how many days will she run and swim again on the same day? _____



ESSENTIAL QUESTION

13. What types of problems can be solved using the greatest common factor? What types of problems can be solved using the least common multiple?

JVA

Name _____ Date _____

Chapter 1

Homework After the Exam

Find the value of the expression.

- 1. $5643 + 1827$
- 2. $8105 - 4463$
- 3. $364 \div 14$
- 4. 43×59

Answers

- 1. _____
- 2. _____
- 3. _____
- 4. _____
- 5. _____
- 6. _____
- 7. _____
- 8. _____
- 9. _____
- 10. _____
- 11. _____
- 12. _____
- 13. _____
- 14. _____
- 15. _____
- 16. _____
- 17. _____
- 18. _____
- 19. _____
- 20. _____
- 21. _____
- 22. _____
- 23. _____

Determine the operation you would use to solve the problem. Do not answer the question.

- 5. A shopper gives a cashier \$60 to pay for a \$49 item. How much does the cashier owe the shopper?
- 6. A movie theater has 18 rows with 15 seats each. How many seats does the theater have?
- 7. A farmer has 450 eggs. Egg cartons hold 12 eggs. How many cartons does the farmer need?

Find the value of the power.

- 8. 7^3
- 9. 9^2

Determine whether the number is a perfect square.

- 10. 100
- 11. 42

Evaluate the expression.

- 12. $14 \div (8 - 6) + 5$
- 13. $9 - 24 \div 6$
- 14. $5(7 - 2) - 4^2$
- 15. $2^4 + 2(10 - 4) - 3$

Write the prime factorization of the number.

- 16. 38
- 17. 54

Find the GCF of the numbers.

- 18. 16, 28
- 19. 18, 60

Find the LCM of the numbers.

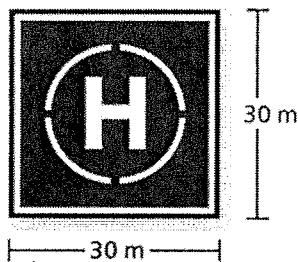
- 20. 6, 8
- 21. 24, 32

Add or subtract. Write the answer in simplest form.

- 22. $\frac{3}{5} - \frac{1}{4}$
- 23. $1\frac{3}{8} + 4\frac{1}{2}$

Chapter 1 Homework

24. An electrician charges \$322 for 7 hours of work. How much does the electrician charge per hour?
25. What is the area of the square helicopter landing pad?



Answers

24. _____
25. _____
26. _____
27. _____
28. _____
29. _____

26. The point system below is used to rank teams in a hockey league. A team's record is 29 wins, 5 ties, and 22 losses. How many points does the team have?

Result	Points
Win	2
Tie	1
Loss	0

27. A class of 54 students is divided into equal groups for orientation. Each group should have at least 7 students but no more than 10 students. What is the group size?
28. You are creating identical candy bags using 18 chocolate bars and 30 peanut butter cups. What is the greatest number of bags you can fill using all the candy?
29. You have violin lessons every fourth day and singing lessons every fifth day. Today you have both lessons. In how many days will you have both lessons on the same day again?

7th grade.

Name _____ Date _____

Chapter 2

Homework for the break

1. Order the numbers from least to greatest.

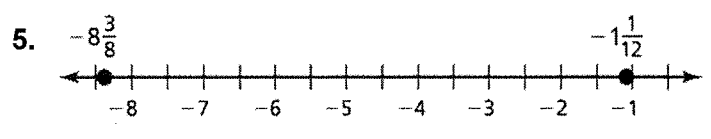
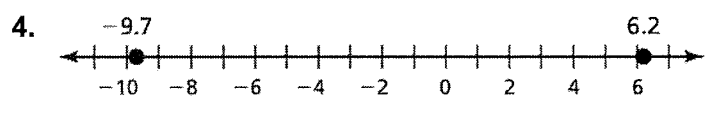
$$\frac{4}{5}, -1.6, -\frac{4}{3}, 0.9, \frac{2}{3}$$

Complete the statement using $<$, $>$, or $=$.

2. -2.34 _____ -2.43

3. $\frac{16}{11}$ _____ $1.\overline{45}$

Find the distance between the two numbers on the number line.



Add or subtract. Write fractions in simplest form.

6. $15.36 + (-12.095)$

7. $-7.91 - (-5.28)$

8. $-3\frac{7}{9} + \left(-2\frac{1}{3}\right)$

9. $\frac{13}{4} - \left(-4\frac{9}{10}\right)$

Evaluate the expression when $x = \frac{5}{8}$, and $y = -\frac{5}{3}$.

10. $x + y$

11. $y - x$

12. $-2x + y$

13. $3x + |y|$

14. You spend $3\frac{2}{3}$ hours hiking and an additional $\frac{3}{4}$ hour to rest.

a. How much time did you spend hiking and resting?

b. How much more time did you spend hiking than resting?

15. Find a repeating decimal between $-2\frac{1}{3}$ and $-2\frac{1}{5}$.

Answers

1. _____
2. See left.
3. See left.
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. a. _____
- b. _____
15. _____

Chapter
2

Evaluate.

16. $3\frac{1}{5} - \left(-\frac{7}{2}\right) + (-1)$

17. $2.4 - |-3.61| - (-8.3)$

18. $-2\frac{1}{3} \times 5\frac{1}{4}$

19. $7.452 \div (-2.16)$

20. $\left(-\frac{3}{2}\right)^2 - \frac{1}{3}\left(3\frac{1}{2}\right)$

21. $0.1 \times (-10.5) - 4.76$

22. The table shows the changes in rainfall (in inches) from the monthly average of four months. What is the mean change?

Month	May	June	July	August
Change (inches)	1.05	-0.58	-2.12	-2.67

23. A recipe calls for $2\frac{1}{2}$ cups of sugar. You have $2\frac{1}{3}$ cups of sugar.

Do you have enough sugar? If not, how much more sugar is needed? Explain your answer.

24. A 10.5-gallon aquarium is $\frac{2}{3}$ full. How many more gallons of water does it take to fill the aquarium?

25. How many 0.45-ounce packages of cinnamon can be made with 3.15 ounces of cinnamon?

Answers

16. _____

17. _____

18. _____

19. _____

20. _____

21. _____

22. _____

23. **See left.**

24. _____

25. _____