

Math Review - Unit 2 - Decimal Operations, Factors, Multiples

12. A chef has prepared two different appetizers. She has 72 mini pizzas and 96 meatballs. What is the greatest number of people the chef can serve if each person must have the same number of each appetizer?

24

$$\begin{array}{r} 8 \overline{) 72 \ 96} \\ \underline{\times 3} \ 9 \ 12 \\ \ 4 \end{array}$$

groups
gcf
3 4

Let's think: You can't go above these numbers (there wouldn't be enough food), so NOT LCM or skip counting. Try GCF

13. At a baseball stadium, every eighth person received a coupon for a free hot dog. Every thirtieth person received a free baseball cap. Which person was the first person to receive both free gifts?

120

$$\begin{array}{r} 2 \ 8 \ 30 \\ \underline{\times 4 \times 15} \end{array}$$

30

Let's think: You will need to count every 8th and 30th person until there is one in common. If it was GCF you'd have to stop at 8 and 30, but you need to keep going, so it must be LCM.

14. A teacher has collected 27 folders, 18 notebooks, and 36 pencils. She wants to make up identical packages of folders, notebooks, and pencils to send to schools where students need supplies. What is the greatest number of packages the teacher can make without any supplies leftover?

group
gcf

$$\begin{array}{r} 3 \overline{) 27 \ 18 \ 36} \\ \underline{\times 3} \ 9 \ 6 \ 12 \\ \ 3 \ 2 \ 4 \end{array}$$

9

15. What is the greatest common factor (GCF) of the numbers below?

- A. 6
- B. 3
- C. 360
- D. 12

$$\begin{array}{r} 2 \overline{) 24 \ 30 \ 18} \\ \underline{\times 3} \ 12 \ 15 \ 9 \\ \ 4 \ 5 \ 3 \end{array}$$

16. Emily has a postcard collection. She can divide her collection into equal groups of 2, 3, or 5. Which could be the number of postcards in Emily's collection?

- A. 20
- B. 30
- C. 50
- D. 40

30

$$\begin{array}{r} 1 \overline{) 2 \ 3 \ 5} \\ \underline{\times 2 \times 3 \times 5} \end{array}$$

LCM

17. What is the least common multiple (LCM) of this set of numbers?

{3, 7, 9}

- A. 63
- B. 27
- C. 42
- D. 21

$$\begin{array}{r} 1 \overline{) 3 \ 7} \\ \underline{\times 3 \times 7} = 21 \end{array}$$

$$\begin{array}{r} 3 \overline{) 21 \ 9} \\ \underline{\times 7 \times 3} \end{array}$$

21
3
63

18. What is the least common multiple (LCM) of any two different prime numbers?

- A. the sum of the prime numbers
- B. the difference between the prime number
- C. the quotient obtained by dividing the greater prime number by the smaller one
- D. the product of the prime numbers

19. Which is equivalent to 25/75?

$$\begin{array}{r} 1 \overline{) 3 \ 5} \\ \underline{ 3 \times 5} \end{array}$$

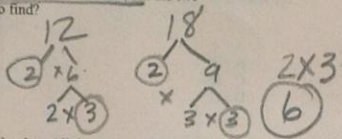
20. For which of these numbers is 9 a common factor?

- ~~A. 62, 90, and 126~~
- ~~B. 18, 45, and 108~~
- ~~C. 45, 90, and 145~~
- ~~D. 18, 36, and 60~~

$$\begin{array}{r} 12 \\ 9 \overline{) 108} \\ \underline{ 9} \\ \end{array}$$

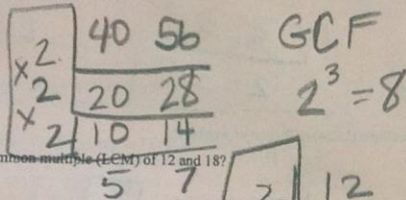
21. Scott wrote the prime factorization of two numbers. He circled each factor that had a match in the two factorizations; then he multiplied them together. What was Scott trying to find?

- A. the sum of the squares of the two numbers
- B. the product of the two numbers
- C. the greatest common factor (GCF) of the two numbers
- D. the least common multiple (LCM) of the two numbers



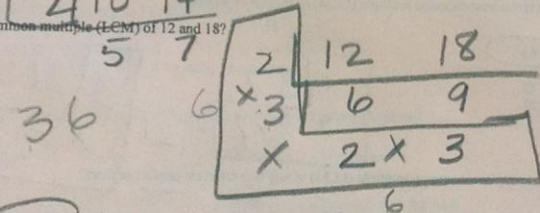
22. Two school pep bands are marching in rows across the field from each other. All the rows contain the same number of people. One band has 40 members, the other band has 56 members. If the rows are as long as possible, how many people are in each row?

- A. 10
- B. 14
- C. 12
- D. 8



23. What is the least common multiple (LCM) of 12 and 18?

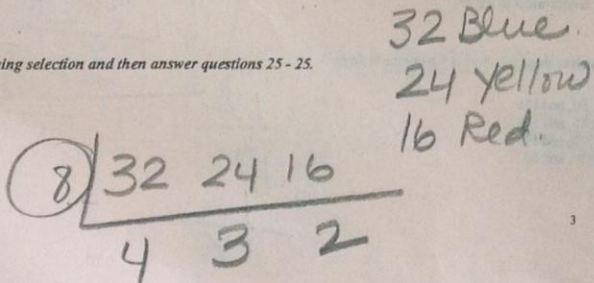
- A. 24
- B. 18
- C. 72
- D. 36



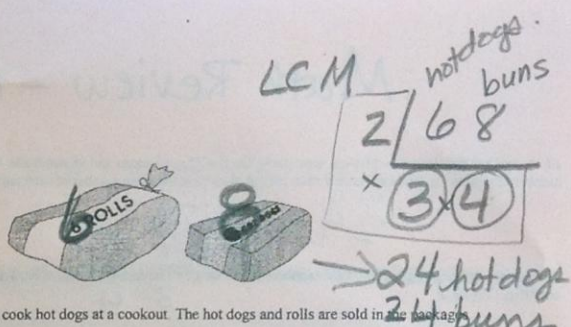
24. A party store is making groups of balloons for a birthday party. They have 32 blue balloons, 24 yellow balloons, and 16 red balloons. They want to make as many groups as possible using all the balloons with an equal number of each color in each group. What is the greatest number of equal groups they can make?

Give the number of groups they can make and explain how you found the answer.

Read the following selection and then answer questions 25 - 25.



25. Mrs. Palmer is planning to cook hot dogs at a cookout. The hot dogs and rolls are sold in the packages shown.



First Part:

- Mrs. Palmer wants to buy the same number of hot dogs and hot dog rolls. What is the least number of packages of hot dogs and rolls she should buy?

*Highlight any keywords (operations, numbers)

What do you know/facts?

Work:

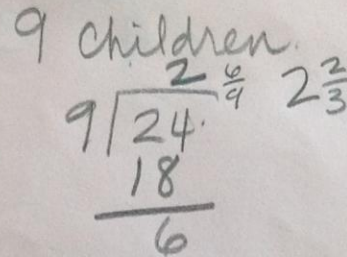
	<p>3 pkg. hot dogs.</p> <p>4 pkg buns.</p>
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Does your answer make reasonable sense?

Second Part (continued):

- There will be 9 children and 6 adults at the cookout. If the children share all the hot dogs equally, what is the most hot dogs that each child can have?

Show your work on the 'Mrs. Palmer's Hotdogs' handout.



20. A party store is making groups of balloons for a birthday party. They have 32 blue balloons, 24 yellow balloons, and 16 red balloons. They want to make as many groups as possible using all the balloons with an equal number of **each color in each group**. What is the greatest number of equal groups they can make? (4 points)

Step 1:
Step 2:

21. Scott wrote the prime factorization of two numbers. He circled each factor that had a match in the two factorizations; then he multiplied them together. What was Scott trying to find?

- A. the least common multiple (LCM) of the two numbers
- B. the sum of the squares of the two numbers.
- C. the product of the two numbers
- D. the greatest common factor (GCF) of the two numbers

18. What is the least common multiple (LCM) of any **two different prime numbers**?

- A. The *difference*
- B. *Sum*
- C. **Product**
- D. *quotient*

1. Kelly divided 1 875 by 0.005. Which of the following examples would give the same answer?

- A. **1875** divided by 5
 - B. 187.5 divided by 0.05
 - C. 1875 divided by 0.5
 - D. 18.75 divided by 0.5
- 005 | 1875*

9. Tamara planted a seedling that had a height of 9.3 centimeters. When she measured it three weeks later, its height was 26.2 centimeters. How many centimeters did the plant grow in those three weeks?

- A. 35.5 cm
 - B. 23.1 cm
 - C. 27.9 cm
 - D. **16.9 cm**
- 26.2*
- 9.3

16.9

6. What is $4.346 + 3.45 + 6.9$?

$$\begin{array}{r} 4.346 \\ 3.450 \\ 6.900 \\ \hline 14.696 \end{array}$$

2. A mural that is 20.6 feet tall and 35.8 feet wide is painted on a wall. What is the total **area** of the wall that is covered by the mural?

3. Judy buys two bags of sugar. **Each** bag contains 1.8 kilograms of sugar. However, one of the bags is **torn**, and 0.4 kilogram of sugar leaks out as Judy returns home. How much sugar did Judy have when she arrived home?

- A. 1.4 kilograms
- B. **3.2 kilograms**

Keywords!!!!

- Difference
- Remaining
- Total
- Area
- factor
- Altogether

What's written FIRST goes in the BOX!!!

Let's practice some:

- Multiplying with decimals
- Division (raise it up and SWOOP)
- GCF
- LCM

20.6
x 35.8

737.48

~~*1.8*~~
~~*- 0.4*~~

1.8
x 2

3.6
- 0.4

3.2