

Module 1 Lesson 6

I will be able to use and apply GCF and LCM to real world situations.

GCF and LCM Story Problems

GCF

Greatest

Largest

Dividing something

LCM

Least

Minimum

Both meet again

Both will be equal

The Movie Theater gives away a \$5 coupon for every 4 movies purchased. They give away a bag of popcorn for every 3 movies purchased. How many movies would you have to purchase in all before receiving both a \$5 coupon and a bag of popcorn at the same purchase?

Key Word: same

GCF or LCM:

Work:

4: 4, 8, 12, 16, 20, 24

3: 3, 6, 9, 12, 15, 18

Answer:

12 movies

Lana earned \$49 on Friday, \$42 on Saturday, and \$21 on Sunday selling bracelets. She sold each bracelet for the same amount. What is the most she could have charged for each bracelet?

Key Word: most

GCF or LCM:

Work:

~~21~~

Answer:

\$ 7 for each

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?

Key Word: *Smallest*

GCF or LCM:

Work:

$$LCM = 60$$

10: ① 10, ② 20, ③ 30, ④ 40, ⑤ 50, ⑥ 60
Answer: 6

e

$$60 \div 12 = 5$$

5 package e

p

$$60 \div 10 = 6$$

6 package p