

Grade 5 Number and Numeration Goal: Identify prime and composite numbers; factor numbers; find prime factorizations.

Unit 12: Find the factors of numbers

List all of the factors of 48 and 64.

48: _____

64: _____

How do you know you have listed **all** of the factors?

Prove that you have them all.

Grade 5 Number and Numeration Goal: Identify prime and composite numbers; factor numbers; find prime factorizations.

Unit 12: Find the prime factorizations of numbers.

Draw a line to match each prime factorization with the whole number it represents.

$$2 * 2 * 2 * 3$$

92

$$2 * 3 * 3 * 3$$

40

$$2 * 2 * 23$$

24

$$2 * 2 * 2 * 5$$

54

Draw a factor tree for 102 and then write the prime factorization.

Grade 5 Number and Numeration Goal: Use numerical expressions to find and represent equivalent names for fractions decimals, and percents; use and explain multiplication and division rules to find equivalent fractions and fractions in simplest form; convert between fractions and mixed numbers; convert between fractions, decimals, and percents.

Unit 12: Find the greatest common factor of two numbers.

Mrs. Keenan ordered school supplies for her class to complete a science project. Below is her invoice:

Amount	Item
24	pens
32	pencils
12	notebooks
40	erasers

Each student that receives supplies will get the same number of each item as every other student gets.

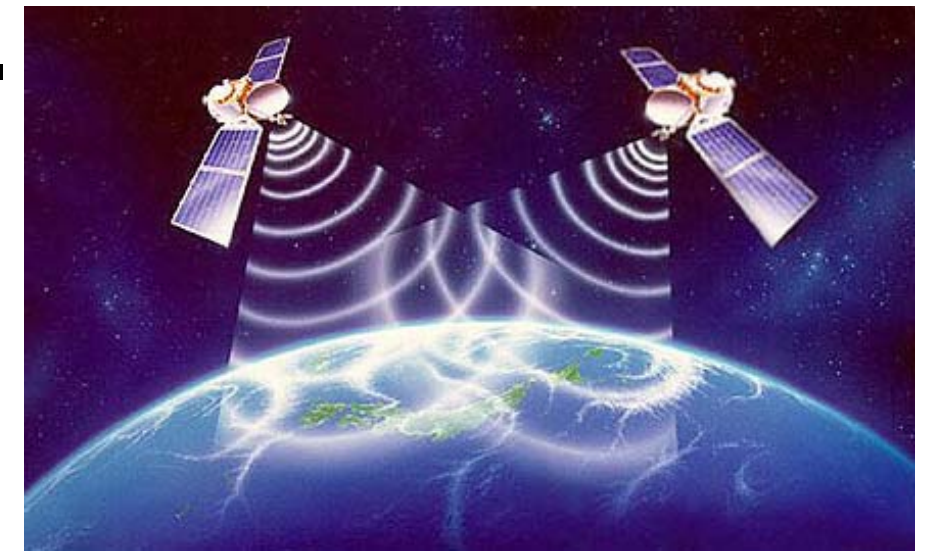
What is the greatest number of students that can receive supplies if each of the four items is used?



Grade 5 Number and Numeration Goal: Use numerical expressions to find and represent equivalent names for fractions decimals, and percents; use and explain multiplication and division rules to find equivalent fractions and fractions in simplest form; convert between fractions and mixed numbers; convert between fractions, decimals, and percents.

Unit 12: Find the least common multiple of two numbers.

Two satellites are put into orbit over the same location at the same time. One satellite orbits the Earth every 24 hours, while the other completes an orbit every 18 hours.



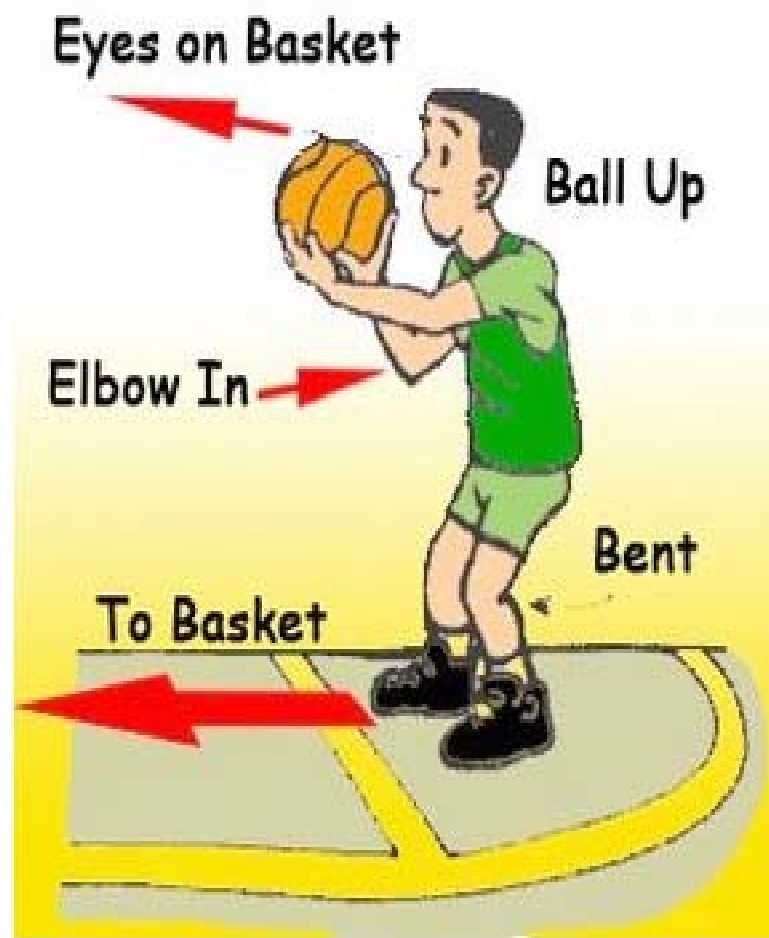
How much time will elapse before they are once again over the same location at the same time? _____

Unit

Use factor trees and prime factorization to explain how you solved the problem.

Grade 5 Operations and Computation Goal: Use repeated addition, arrays, area, and scaling to model multiplication and division; use ratios expressed as words, fractions, percents, and with colons; solve problems involving ratios of parts of a set to the whole set.

Unit 12: Solve ratio and rate number stories.



Kyler sinks 6 out of every 8 foul shots he takes. If he takes 40 shots, how many will he make?

In a snack bag of **green** and **red** M&Ms, there are 60 pieces of candy. Two-thirds of the candies are **green**. How many candies are **red**?

