

MY Homework

Lesson 2

Greatest Common Factor

Homework Helper

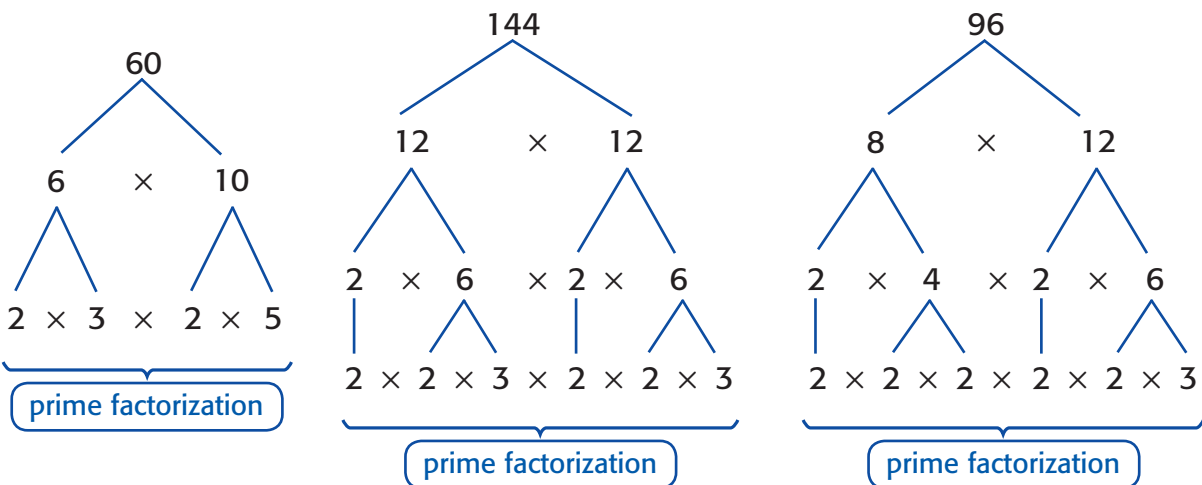


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The table shows the amount of money Ms. Ayala made over three days selling 4-inch × 6-inch prints at an arts festival. Each print costs the same amount. What is the most each print could have cost?

Ms. Ayala's Artwork	
Day	Cost (\$)
Friday	60
Saturday	144
Sunday	96

Write the prime factorization to find common factors.



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

Multiply to find the GCF. $2 \times 2 \times 3 = 12$

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

Practice

Find the GCF of each set of numbers.


1. 21, 30 _____

2. 12, 30, 72 _____



Problem Solving

3. A store sells boxes of juice in equal-size packs. Garth bought 18 boxes, Rico bought 36 boxes, and Mai bought 45 boxes. What is the greatest number of boxes in each pack? How many packs did each person buy if each box contained the greatest number of boxes possible?

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



Vocabulary Check



5. 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.

Test Practice

6. Jeremiah will share his collection with his friends so that they each receive the same number of cards. What is the greatest number of cards they will each receive?

- (A) 4 cards (C) 12 cards
(B) 8 cards (D) 16 cards

Sports Cards	
Type	Number
Baseball	32
Football	24