

Annotated Answer Key

Name _____

Grade 6, Unit 3, Lesson 6: Least Common Multiple and Greatest Common Factor

Find the least common multiple (LCM) or greatest common factor (GCF) of the two numbers. Show all work.

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| <p>1) LCM(4,8)</p> <p>8</p> <p>NOTE: Students may need to be reassured that one of the numbers can be the least common multiple. This happens when one number is a multiple of the other.</p> | <p>2) LCM(5,9)</p> <p>45</p> |
| <p>3) LCM(3,12)</p> <p>12</p> | <p>4) LCM(8,10)</p> <p>40</p> <p>NOTE: Remind students that we want the least common multiple. 80 is a common answer given in error, when students think they just need to multiply the two numbers together. Because both numbers have a greatest common factor of 2, you can divide their product by the GCF to get their LCM.</p> |
| <p>5) The school is making prizes. Each prize is a metallic gel pen and a fruit-shaped notebook. Gel pens come in packs of 8 and notebooks are sold in groups of three. How many packages of pens and notebooks does the school need to buy so they have the same amount of each to make prizes?</p> <p>8 packs of notebooks and 3 packs of pens</p> <p>NOTE: Students may need to be reminded that they aren't being asked to find the LCM here, but they will use the LCM to answer the question that is</p> | <p>6) GCF(35,40)</p> <p>5</p> |

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| asked. | |
| 7) GCF(36,72) 36 NOTE: Students may need to be reassured that one of the numbers can be the greatest common factor of both numbers. This happens when one number is a multiple of the other. | 8) GCF(20,64) 4 |
| 9) GCF(21, 20) 1 NOTE: Sets of numbers that share no common factors, other than one, have one as their greatest common factor. Sometimes students think if one is that only factor shared, there is no greatest common factor. However, since all numbers share one as a common factor, than it is the greatest common factor when there are no other common factors. | 10) Jason is putting together care packages to send troops overseas. He has 45 packs of gum and 27 lip balms. If Jason makes each care package identical, how many care packages can he make? 9 packages with 3 lip balms and 5 packs of gum |