

Grade 6 Multiplication & GCF/LCM Practice

Multiplication • Grade 6 • Mixed Review • Set C • CCSS 6.NS.4

Name: _____

Date: _____

Solve each multiplication problem and use GCF or LCM where indicated.

1. Find the GCF of 36 and 24, then use the distributive property to rewrite $36 + 24$ as a product: $\text{GCF} \times (_ + _) =$

2. What is the LCM of 9 and 12?

3. A school orders supplies in boxes of 8 or boxes of 9. What is the least number of supplies that fills both box sizes exactly (LCM of 8 and 9)?

4. Find the GCF of 27 and 45, then rewrite $27 + 45$ using the distributive property: $\text{GCF} \times (_ + _) =$

5. What is the LCM of 8 and 12?

6. Two friends run laps. One completes a lap every 9 minutes, the other every 7 minutes. After how many minutes will they finish a lap at the same time (LCM of 9 and 7)?

7. One bus leaves the station every 12 minutes and another every 9 minutes. If both leave now, in how many minutes will they leave together again (LCM of 12 and 9)?

8. Find the GCF of 35 and 28, then rewrite $35 + 28$ using the distributive property: $\text{GCF} \times (_ + _) =$

9. Hot dogs come in packs of 9 and buns in packs of 6. What is the smallest number of each you can buy to have the same number of hot dogs and buns (LCM of 9 and 6)?

10. A school orders supplies in boxes of 7 or boxes of 10. What is the least number of supplies that fills both box sizes exactly (LCM of 7 and 10)?

Answer Key

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1. $12 \times (3 + 2)$

5. 24

9. 18 of each

2. 36

6. 63 minutes

10. 70 supplies

3. 72 supplies

7. 36 minutes

4. $9 \times (3 + 5)$

8. $7 \times (5 + 4)$