

Grade 6 Multiplication & GCF/LCM Practice

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

Name: _____

Date: _____

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

1. Find the GCF of 39 and 26, then use the distributive property to rewrite $39 + 26$ as a product: $\text{GCF} \times (_ + _) =$

2. What is the LCM of 8 and 12?

3. A school orders supplies in boxes of 6 or boxes of 8. What is the least number of supplies that fills both box sizes exactly (LCM of 6 and 8)?

4. Find the GCF of 24 and 32, then rewrite $24 + 32$ using the distributive property: $\text{GCF} \times (_ + _) =$

5. What is the LCM of 9 and 12?

6. One bus leaves the station every 4 minutes and another every 10 minutes. If both leave now, in how many minutes will they leave together again (LCM of 4 and 10)?

7. Hot dogs come in packs of 7 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 7 and 6)?

8. Find the GCF of 33 and 44, then rewrite $33 + 44$ using the distributive property: $\text{GCF} \times (_ + _) =$

9. Two friends run laps. One completes a lap every 4 minutes, the other every 7 minutes. After how many minutes will they finish a lap at the same time (LCM of 4 and 7)?

10. A school orders supplies in boxes of 11 or boxes of 5. What is the least number of supplies that fills both box sizes exactly (LCM of 11 and 5)?

Answer Key

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1. $13 \times (3 + 2)$

5. 36

9. 28 minutes

2. 24

6. 20 minutes

10. 55 supplies

3. 24 supplies

7. 42 of each

4. $8 \times (3 + 4)$

8. $11 \times (3 + 4)$