



### GCF & LCM

GRADE 6 MATH

Name \_\_\_\_\_

Date \_\_\_\_\_

Work through the sheet in order. Show your factor lists or multiple lists; final answers go in the boxes.  
One skill: **GCF and LCM**.

#### WORKED EXAMPLE

**GCF of 21 and 35:**  $21 = 3 \times 7$ ,  $35 = 5 \times 7$ . Shared: **7**. **LCM of 6 and 10:** the smallest number both divide into is **30**.

1. Find the GCF of 8 and 12.

FLUENCY

Show your thinking

Answer

2. Find the GCF of 15 and 25.

FLUENCY

Show your thinking

Answer

3. Find the LCM of 3 and 5.

FLUENCY

Show your thinking

Answer

4. Find the **LCM** of 6 and 9.

APPLICATION

Show your thinking

Answer

5. Find the **GCF** of 42 and 56.

APPLICATION

Show your thinking

Answer

6. Find the **LCM** of 8 and 12.

APPLICATION

Show your thinking

Answer

7. You have 36 apples and 48 oranges. You want to make identical gift bags with no fruit left over, using as many bags as possible. How many bags, and what goes in each? Say whether you used GCF or LCM.

REASONING

Show your thinking

Answer

8. Two runners start together. One laps every 4 minutes, the other every 10. When do they next cross the line together? GCF or LCM?

REASONING

Show your thinking

Answer

9. Sam says the GCF of 16 and 24 is 2 because both are even. Is he right? Find the GCF and explain his error.

REASONING

Show your thinking

Answer