Name: _____

GCF and LCM Word Problems

Decide whether each problem needs the GCF or the LCM. Then solve.

Learn: Splitting things into equal groups → GCF. Finding when things happen together again → LCM.

Example: Hot dogs come in packs of 6 and buns in packs of 8. What is the fewest of each you can buy to have the same number?

Answer: 24 of each

1. Ms. Diaz has 24 pencils and 32 erasers. She wants identical kits with no supplies left over. What is the greatest number of kits she can make?

   Answer: _____

2. Sam mows lawns every 6 days and Ava every 15 days. They both mowed today. In how many days will they mow on the same day again?

   Answer: _____

3. One light blinks every 3 seconds and another every 4 seconds. They blink together now. In how many seconds will they blink together again?

   Answer: _____

4. A florist has 45 roses and 63 tulips. Each bouquet must be the same with nothing left over. What is the greatest number of bouquets?

   Answer: _____

5. Two ribbons are 20 inches and 30 inches long. They are cut into equal pieces as long as possible with none left over. How long is each piece?

   Answer: _____

6. Hot dogs come in packs of 6 and buns in packs of 10. What is the fewest of each you can buy to have the same number?

   Answer: _____

7. Ms. Diaz has 8 pencils and 20 erasers. She wants identical kits with no supplies left over. What is the greatest number of kits she can make?

   Answer: _____

8. Sam mows lawns every 10 days and Ava every 12 days. They both mowed today. In how many days will they mow on the same day again?

   Answer: _____

Name: **ANSWER KEY**

GCF and LCM Word Problems

Decide whether each problem needs the GCF or the LCM. Then solve.

Learn: Splitting things into equal groups → GCF. Finding when things happen together again → LCM.

Example: Hot dogs come in packs of 6 and buns in packs of 8. What is the fewest of each you can buy to have the same number?

Answer: 24 of each

1. Ms. Diaz has 24 pencils and 32 erasers. She wants identical kits with no supplies left over. What is the greatest number of kits she can make?

   Answer: 8 kits

2. Sam mows lawns every 6 days and Ava every 15 days. They both mowed today. In how many days will they mow on the same day again?

   Answer: 30 days

3. One light blinks every 3 seconds and another every 4 seconds. They blink together now. In how many seconds will they blink together again?

   Answer: 12 seconds

4. A florist has 45 roses and 63 tulips. Each bouquet must be the same with nothing left over. What is the greatest number of bouquets?

   Answer: 9 bouquets

5. Two ribbons are 20 inches and 30 inches long. They are cut into equal pieces as long as possible with none left over. How long is each piece?

   Answer: 10 inches

6. Hot dogs come in packs of 6 and buns in packs of 10. What is the fewest of each you can buy to have the same number?

   Answer: 30 of each

7. Ms. Diaz has 8 pencils and 20 erasers. She wants identical kits with no supplies left over. What is the greatest number of kits she can make?

   Answer: 4 kits

8. Sam mows lawns every 10 days and Ava every 12 days. They both mowed today. In how many days will they mow on the same day again?

   Answer: 60 days