Grade 4 Math: Divisibility of Numbers Practice Worksheet: Difficulty Level: Intermediate

Name: _____

Date: _____

Identifying and Analyzing Divisibility

1. **Which of the following numbers is divisible by both 4 and 6?**
   ○ 48, 64, 72, 96, 100

2. **Find a 3-digit number that is divisible by 5 and 9.**

3. **Find the smallest number greater than 500 that is divisible by 8.**

4. **Fill in the blanks to make the number divisible by 3:**
   ○ 2_7
   ○ 8_4

5. **Which number between 400 and 500 is divisible by both 7 and 10?**

Applying Divisibility Rules

Complete the divisibility table (Write Yes/No at appropriate places)

Number	÷2	÷3	÷4	÷5	÷6	÷9
825	—	—	—	—	—	—

936	__	__	__	__	__	__
720	__	__	__	__	__	__
855	__	__	__	__	__	__
1024	__	__	__	__	__	__

True or False with Explanation

1. If a number is divisible by 4, it must also be divisible by 8.
2. If a number ends in 0, it is always divisible by 5.
3. Any number divisible by both 3 and 4 must be divisible by 12.
4. A number is divisible by 6 if it is divisible by both 2 and 3.
5. The sum of the digits of 785 is 20, so 785 is divisible by 3.

Word Problems on Divisibility

1. **A school orders 840 notebooks. Each student receives 6 notebooks.**
   - How many students are there?
   - Is 840 divisible by 3?

2. **A baker arranges 234 cupcakes into trays of 9 each.**
   - Will any cupcakes be left over?

3. **Find the smallest number greater than 300 that is divisible by both 7 and 8.**

4. **A class of 125 students is divided into equal groups of 5, 10, or 25.**

○ Will the students be evenly divided in all cases?

5. **A factory produces 660 toys every week.**
   ○ Can they be packed into boxes of 11?

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