

Grade 4 Math: Divisibility Advanced	of Numbers Practice Worksheet: Difficulty Level:
Name:	
Date:	

Find the Missing Number

- 1. Fill in the blanks to make these numbers divisible by **multiple divisors**:
 - _35 is divisible by 5 and 7.
 - o 4_6 is divisible by 3 and 9.
 - o 12_8 is divisible by 4 and 8.
- 2. Find the smallest number greater than 1,500 that is divisible by 6 and 9.
- 3. What is the **largest possible number** divisible by 6 using the digits **2**, **4**, **6**, **7**?
- 4. Create a **4-digit number** using the digits **1, 2, 3, and 4** such that it is divisible by **5 and 3**.
- 5. A number is divisible by **12** and **18** but **not by 24**. What could that number be?

Challenge Puzzles

- 1. I am a number:
 - I am divisible by 4 and 6.
 - o I am greater than 200 and less than 400.
 - o The sum of my digits is a multiple of 3.
 - Who am I?



- 2. A mystery number is divisible by **5 and 9** and ends in **5**. What is the smallest such number?
- 3. A farmer collects **2,160 eggs** and wants to pack them in boxes of **18 or 24**. Can he do so **without any leftovers**?
- 4. Which **smallest 3-digit number** is divisible by both **7 and 8**?
- 5. Find a number between **1,000** and **1,500** that is divisible by **5 and 11**.

Real-Life Scenarios

- 1. A warehouse stores **9,600 cartons**. If they are packed in groups of **12, 15, or 25**, can they be evenly distributed in all cases?
- 2. A school bus has **1,320 students** and needs to arrange them in rows of **30**. Will there be any extra students?
- 3. A factory produces **4,500 pens** every week. Can they be packed into boxes of **25 and 50** evenly?
- 4. A sports club has **7,200 tennis balls** to be packed in boxes of **40**. How many boxes will be needed?
- 5. A teacher wants to divide **2,160 worksheets** among **36 students**. Will each student get an equal number of worksheets?

Multi-Divisor Patterns

- 1. Find a **4-digit number** that is divisible by **5**, **7**, **and 9**.
- 2. What is the **smallest number greater than 2,000** that is divisible by **6, 9, and 12**?



- 3. A company produces **6,000 toys** every month. Can they be packed into cartons of **15, 30, and 50** without leftovers?
- 4. Find the largest number less than 1,000 that is divisible by 11 and 15.
- 5. Write all common multiples of 3 and 7 between 50 and 150.

-BE THE CHAMPION!--