

# Divisibility & Remainders

## Concept — ANSWER KEY

Does it divide evenly — and what's left over?

**Think:** Divisible by 2 → last digit even. By 5 → ends in 0 or 5. By 10 → ends in 0.

### 1. Answers with the thinking.

1) Is 84 divisible by 10? (yes / no) **no**

↳  $84 \div 10$  leaves remainder 4

3) What is the remainder of  $14 \div 5$ ? **4**

↳  $5 \times 2 = 10$ , so 4 left over

5) Is 16 divisible by 2? (yes / no) **yes**

↳  $16 \div 2$  leaves remainder 0

7) Is 37 divisible by 5? (yes / no) **no**

↳  $37 \div 5$  leaves remainder 2

9) Is 8 divisible by 10? (yes / no) **no**

↳  $8 \div 10$  leaves remainder 8

11) Is 47 divisible by 2? (yes / no) **no**

↳  $47 \div 2$  leaves remainder 1

2) Is 75 divisible by 5? (yes / no) **yes**

↳  $75 \div 5$  leaves remainder 0

4) Is 87 divisible by 5? (yes / no) **no**

↳  $87 \div 5$  leaves remainder 2

6) What is the remainder of  $11 \div 4$ ? **3**

↳  $4 \times 2 = 8$ , so 3 left over

8) Is 11 divisible by 2? (yes / no) **no**

↳  $11 \div 2$  leaves remainder 1

10) Is 35 divisible by 2? (yes / no) **no**

↳  $35 \div 2$  leaves remainder 1

12) Is 55 divisible by 2? (yes / no) **no**

↳  $55 \div 2$  leaves remainder 1