

Divisibility & Remainders

Advanced

Bigger numbers, combined checks.

Name: _____ Date: _____

Think: Divisible by 6 means divisible by BOTH 2 and 3. Check each on its own.

1. Solve each one. Reason it out!

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| 1) What is the remainder of $488 \div 9$? _____ | 2) What is the smallest number GREATER than 321 that is divisible by 7? _____ |
| 3) What is the smallest number GREATER than 284 that is divisible by 9? _____ | 4) Is 254 divisible by 6? (It must be divisible by BOTH 2 and 3.) _____ |
| 5) Is 52 divisible by 6? (It must be divisible by BOTH 2 and 3.) _____ | 6) What is the remainder of $335 \div 8$? _____ |
| 7) Is 292 divisible by 6? (It must be divisible by BOTH 2 and 3.) _____ | 8) What is the smallest number GREATER than 152 that is divisible by 8? _____ |
| 9) Is 236 divisible by 6? (It must be divisible by BOTH 2 and 3.) _____ | 10) What is the remainder of $244 \div 7$? _____ |
| 11) Is 233 divisible by 6? (It must be divisible by BOTH 2 and 3.) _____ | 12) Is 43 divisible by 6? (It must be divisible by BOTH 2 and 3.) _____ |