

Divisibility & Remainders

Practice

Digit-sum tricks and sharing problems.

Name: _____ Date: _____

Think: For 3 and 9: add up the digits. If the digit sum divides, the number divides.

1. Solve each one. Reason it out!

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| 1) What is the remainder of $28 \div 4$? _____ | 2) Is 74 divisible by 3? Use the digit-sum trick. _____ |
| 3) What is the remainder of $28 \div 9$? _____ | 4) 26 marbles are shared equally among 8 friends. How many marbles are LEFT OVER? _____ |
| 5) What is the remainder of $84 \div 7$? _____ | 6) 28 marbles are shared equally among 3 friends. How many marbles are LEFT OVER? _____ |
| 7) 43 marbles are shared equally among 3 friends. How many marbles are LEFT OVER? _____ | 8) 47 marbles are shared equally among 8 friends. How many marbles are LEFT OVER? _____ |
| 9) What is the remainder of $58 \div 4$? _____ | 10) What is the remainder of $51 \div 5$? _____ |
| 11) 41 marbles are shared equally among 8 friends. How many marbles are LEFT OVER? _____ | 12) Is 109 divisible by 9? Use the digit-sum trick. _____ |