

**Algebra****Write the missing numbers.**

- ① 2, 4, \_\_\_\_\_, 8, \_\_\_\_\_, 12, 14, \_\_\_\_\_, \_\_\_\_\_, 20, 22
- ② 3, 6, 9, \_\_\_\_\_, \_\_\_\_\_, 18, \_\_\_\_\_, 24, \_\_\_\_\_, 30
- ③ 4, \_\_\_\_\_, \_\_\_\_\_, 16, 20, \_\_\_\_\_, 28, \_\_\_\_\_, 36, \_\_\_\_\_
- ④ 5, 10, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, 30, \_\_\_\_\_, \_\_\_\_\_, 45, \_\_\_\_\_
- ⑤ 34, 32, \_\_\_\_\_, 28, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, 20, \_\_\_\_\_, 16, 14, \_\_\_\_\_
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**Problem Solving****Use a strategy and solve.**

- ⑥ The Ice Cream Shop has 3 ice cream flavors and 2 types of toppings. How many different combinations of 1 flavor and 1 topping are there? \_\_\_\_\_
- ⑦ Morgan is making a secret code using the digits 1, 3, 5, and 8. How many different four-digit numbers can she make using those digits? \_\_\_\_\_
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**Reasoning and Proof****Solve each riddle.**

- ⑧ I am a two-digit number.  
My tens digit is 3 times my ones digit.  
The sum of my digits is 12.  
What number am I? \_\_\_\_\_
- ⑨ I am a two-digit number.  
My ones digit is greater than my tens digit.  
My ones digit is 4 times my tens digit.  
The sum of my digits is 10.  
What number am I? \_\_\_\_\_