

Connection Detection

In an **analogy**, two groups are related in some way. To solve an analogy, find a relationship between the items in the first group. Use the same relationship to find missing items in the second group.

Example 2 is to 8 as 3 is to _____

Answer You know that $2 \times 4 = 8$. So multiplying 3 by 4 to get 12 is one way to complete the analogy.

Circle the number that completes each analogy. Explain the relationship between the numbers. (**Hint:** Use multiplication or division.)

- | | |
|---------------------------------|----|
| 1. 3 is to 6 as 6 is to _____ | 9 |
| _____ | 12 |
| | 24 |
| 2. 20 is to 40 as 5 is to _____ | 10 |
| _____ | 15 |
| | 20 |
| 3. 7 is to 42 as 9 is to _____ | 36 |
| _____ | 45 |
| | 54 |
| 4. 3 is to 12 as 5 is to _____ | 15 |
| _____ | 20 |
| | 25 |
| 5. 32 is to 8 as 20 is to _____ | 1 |
| _____ | 4 |
| | 5 |

Write your own number analogy. Start with one fact. Find a second related fact. Then write your analogy.
