

Counting Puzzles

Concept — ANSWER KEY

Choices multiply.

Think: Independent choices MULTIPLY: 3 shirts and 2 pants make $3 \times 2 = 6$ outfits.

1. Answers with the thinking.

1) You have 5 covers and 4 stickers. Each outfit uses one of each. How many different combinations can you make? **20**

$$\rightarrow 5 \times 4$$

3) You have 2 hats and 2 scarves. Each outfit uses one of each. How many different combinations can you make?

4

$$\rightarrow 2 \times 2$$

5) You have 3 shirts and 4 pairs of pants. Each outfit uses one of each. How many different combinations can you make? **12**

$$\rightarrow 3 \times 4$$

7) You have 5 covers and 2 stickers. Each outfit uses one of each. How many different combinations can you make? **10**

$$\rightarrow 5 \times 2$$

9) A snack bar offers 4 sandwiches and 2 drinks. How many different sandwich-and-drink lunches are there? **8**

$$\rightarrow 4 \times 2$$

2) You have 3 ice-cream flavors and 5 toppings. Each outfit uses one of each. How many different combinations can you make? **15**

$$\rightarrow 3 \times 5$$

4) You have 4 ice-cream flavors and 2 toppings. Each outfit uses one of each. How many different combinations can you make? **8**

$$\rightarrow 4 \times 2$$

6) You have 2 covers and 5 stickers. Each outfit uses one of each. How many different combinations can you make? **10**

$$\rightarrow 2 \times 5$$

8) A snack bar offers 2 sandwiches and 2 drinks. How many different sandwich-and-drink lunches are there? **4**

$$\rightarrow 2 \times 2$$

10) A snack bar offers 3 sandwiches and 3 drinks. How many different sandwich-and-drink lunches are there? **9**

$$\rightarrow 3 \times 3$$