

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 2 breads and 5 fillings. Each outfit uses one of each. How many different combinations can you make? **10**

$$\rightarrow 2 \times 5$$

3) A snack bar offers 2 sandwiches and 3 drinks. How many different sandwich-and-drink lunches are there? **6**

$$\rightarrow 2 \times 3$$

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

$$\rightarrow 2 \times 2$$

7) You have 3 breads and 5 fillings. Each outfit uses one of each. How many different combinations can you make? **15**

$$\rightarrow 3 \times 5$$

9) You have 2 covers and 3 stickers. Each outfit uses one of each. How many different combinations can you make? **6**

$$\rightarrow 2 \times 3$$

2) You have 4 breads and 3 fillings. Each outfit uses one of each. How many different combinations can you make? **12**

$$\rightarrow 4 \times 3$$

4) You have 2 breads and 2 fillings. Each outfit uses one of each. How many different combinations can you make? **4**

$$\rightarrow 2 \times 2$$

6) You have 2 ice-cream flavors and 3 toppings. Each outfit uses one of each. How many different combinations can you make? **6**

$$\rightarrow 2 \times 3$$

8) You have 5 shirts and 4 pairs of pants. Each outfit uses one of each. How many different combinations can you make? **20**

$$\rightarrow 5 \times 4$$

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

$$\rightarrow 5 \times 2$$