

Lesson 6 Skills Practice

Permutations

Find each value. Use a calculator if needed.

1. $P(2,2)$

$=2$

2. $P(4,3)$

$=24$

3. $P(5,4)$

$=120$

4. $P(9,5)$

$15,120$

5. $P(8,7)$

$=40,320$

6. $P(12,13)$

$=0$

7. $P(11,3)$

$=990$

8. $P(10,4)$

$5,040$

9. $P(6,5)$

$=720$

10. $P(5,3)$

$=60$

11. $P(7,4)$

$=840$

12. $P(6,4)$

$=360$

13. How many ways can you arrange the letters in the word *prime*?

4 times.

14. How many ways can you arrange 8 different crates on a shelf if they are placed from left to right?

16 times