

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. $P(12,13)$

1,320

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*?

120

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

40,320