

Chapter 4: Number Theory

Put a tick (✓) or a cross (X) to these statement.

1. 13 is a prime number.
2. 22 is a prime number.
3. 24 is an opposite number.
4. 40 is a prime number.
5. 81 is an opposite number.
6. 10 is a prime number.
7. 96 is an opposite number.
8. 77 is a prime number.
9. 8 is a prime number.
10. 9 is an opposite number.
11. 7 is an opposite number.
12. 27 is a prime number.
13. 19 is a prime number.

Please circle the correct answer.

1. What is the prime factorization of 15 ?

 3 3×15 $3 \times 3 \times 5$ 3×5

2. What is the prime factorization of 25 ?

 5×25 5^3 5 5^2

3. What is the prime factorization of 9 ?

 3×3 3^3 3×9 3

4. What is the prime factorization of 6 ?

 2 2×3 3 2×6

5. What is the prime factorization of 18 ?

 9×2 9×9 $9 \times 9 \times 9$ 9^3

Please write down the correct answer.

1. Find all the factor pair for 27 and complete the equations.

$$27 = 1 \times \boxed{}$$

$$27 = 3 \times \boxed{}$$

2. Find all the factor pair for 28 and complete the equations.

$$28 = 1 \times \boxed{}$$

$$28 = 2 \times \boxed{}$$

$$28 = 4 \times \boxed{}$$

3. Find all the factor pair for 10 and complete the equations.

$$10 = 1 \times \boxed{}$$

$$10 = 2 \times \boxed{}$$

4. Find all the factor pair for 25 and complete the equations.

$$25 = 1 \times \boxed{}$$

$$25 = 3 \times \boxed{}$$

Please circle the correct answer.

1. Which number is a factor of 16 ?

9

8

5

3

2. Which number is a factor of 365 ?

5

6

7

8

3. Which number is a factor of 448 ?

2

3

5

6

4. Which number is a factor of 909 ?

5

4

3

2

5. Which number is a factor of 318 ?

7

6

9

4

Please circle the correct answer.

1. What is the prime factorization of 21 ?

 3 7 1×21 1×2

2. What is the prime factorization of 20 ?

 10×2 10 2 10×10

3. What is the prime factorization of 36 ?

 6×6 6^3 6 3

4. What is the prime factorization of 40 ?

 2 2×10 4 4×10

5. What is the prime factorization of 56 ?

 8 8×7 6 5×6