

Concept CW_Grade-6_Factors, Multiples, Primes and Exponents

Factors and Multiples

Complete the product strategy to find the factors of each number.

1) 36

$$\boxed{\quad} \times 36 = 36$$

$$2 \times \boxed{\quad} = 36$$

$$\boxed{\quad} \times 12 = 36$$

$$4 \times \boxed{\quad} = 36$$

$$\boxed{\quad} \times 6 = 36$$

2) 12

$$1 \times \boxed{\quad} = 12$$

$$\boxed{\quad} \times 6 = 12$$

$$3 \times \boxed{\quad} = 12$$

The factors of 36 are _____

The factors of 12 are _____

3) 28

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

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

$$\boxed{\quad} \times 7 = 28$$

4) 45

$$\boxed{\quad} \times 45 = 45$$

$$\boxed{\quad} \times 15 = 45$$

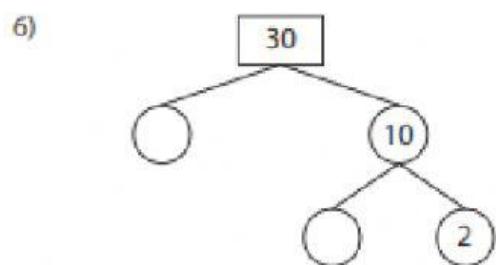
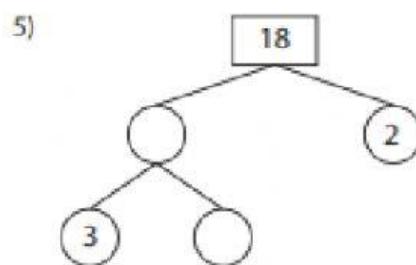
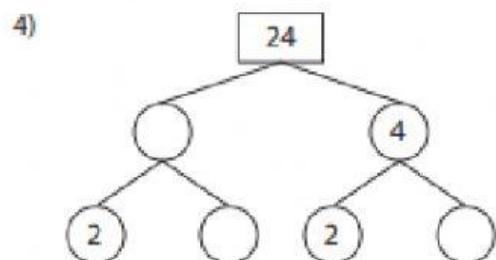
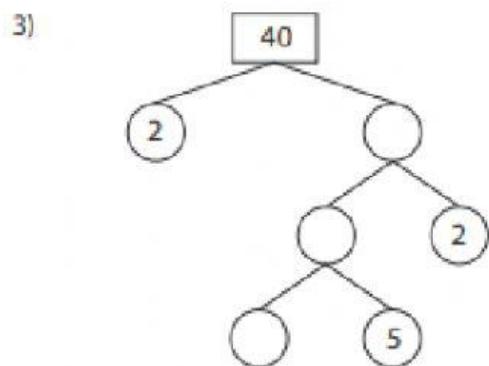
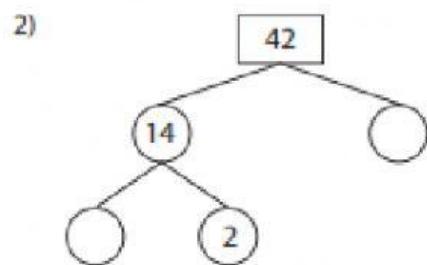
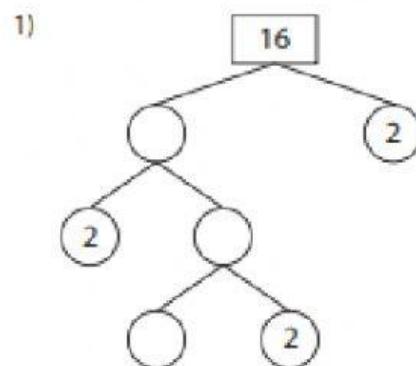
$$5 \times \boxed{\quad} = 45$$

The factors of 28 are _____

The factors of 45 are _____

5) Write your own product strategy to find the factors of 50.

Complete the prime factor tree for each number.



1. Write any four multiples of:

- (i) 7
- (ii) 9
- (iii) 12
- (iv) 20

2. Write any six multiples of:

- (i) 6
- (ii) 8
- (iii) 10
- (iv) 15

3. Fill in the blanks:

- (i) $3 \times 7 = 21$, so, 21 is the multiple of and
- (ii) $11 \times 8 = 88$, so, is the multiple of 11 and 8.
- (iii) $3 \times 4 \times 5 = 60$, so, 60 is the multiple of, 4 and

4. Is 37 a multiple of 4?**5. Check if:**

- (i) 81 is a multiple of 9
- (ii) 105 is a multiple of 5
- (iii) 106 is a multiple of 3
- (iv) 69 is a multiple of 15