

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

$$\square \times 36 = 36$$

$$2 \times \square = 36$$

$$\square \times 12 = 36$$

$$4 \times \square = 36$$

$$\square \times 6 = 36$$

The factors of 36 are _____

2) 12

$$1 \times \square = 12$$

$$\square \times 6 = 12$$

$$3 \times \square = 12$$

The factors of 12 are _____

3) 28

$$1 \times \square = 28$$

$$2 \times \square = 28$$

$$\square \times 7 = 28$$

The factors of 28 are _____

4) 45

$$\square \times 45 = 45$$

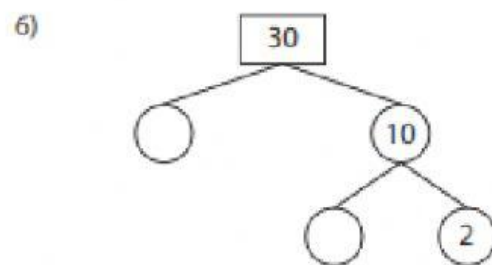
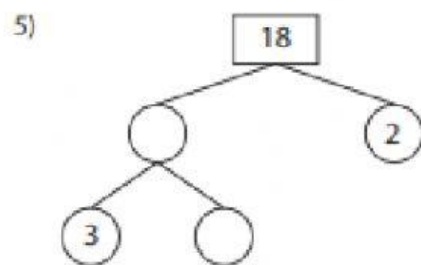
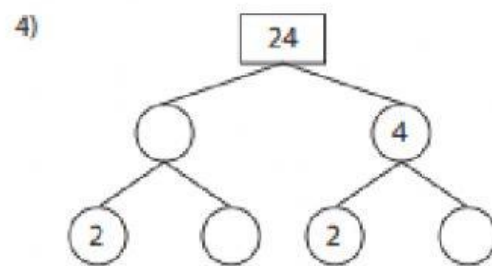
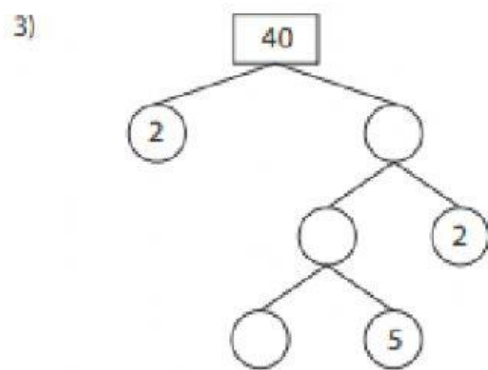
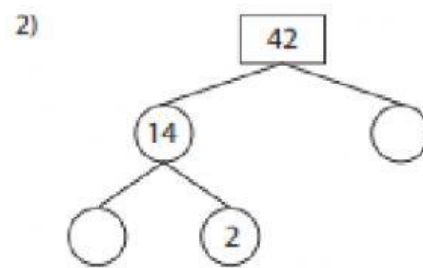
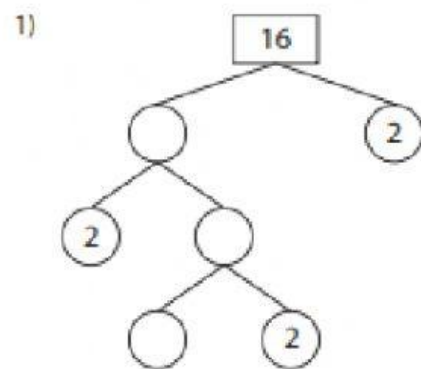
$$\square \times 15 = 45$$

$$5 \times \square = 45$$

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