

Name: Class:

Identify factors

The factors of a number are any numbers that divide that number evenly, including 1 and that number itself.

List all the factors of the following numbers.

a. 100

c. 144

b. 44

d. 70

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Identify factors

The factors of a number are any numbers that divide that number evenly, including 1 and that number itself.

List all the factors of the following numbers.

a. 100

To solve this, let's find as many two numbers as possible that we can multiply to make 100.

We know that,

$$1 \times 100 = 100$$

$$2 \times 50 = 100$$

$$4 \times 25 = 100$$

$$5 \times 20 = 100$$

$$10 \times 10 = 100$$

So, the factors of 100 are

(1, 2, 4, 5, 10, 20, 25, 50, 100)

c. 144

We know that,

$$1 \times 144 = 144$$

$$2 \times 72 = 144$$

$$3 \times 48 = 144$$

$$4 \times 36 = 144$$

$$6 \times 24 = 144$$

$$8 \times 18 = 144$$

$$9 \times 16 = 144$$

$$12 \times 12 = 144$$

So, the factors of 144 are

(1, 2, 3, 4, 6, 8, 9, 12, 16, 18, 24, 36, 48, 72, 144)

b. 44

To solve this, let's find as many two numbers as possible that we can multiply to make 44.

We know that,

$$1 \times 44 = 44$$

$$2 \times 22 = 44$$

$$4 \times 11 = 44$$

$$11 \times 4 = 44$$

So, the factors of 44 are

(1, 2, 4, 11, 22, 44)

d. 70

We know that,

$$1 \times 70 = 70$$

$$2 \times 35 = 70$$

$$5 \times 14 = 70$$

$$7 \times 10 = 70$$

$$10 \times 7 = 70$$

$$14 \times 5 = 70$$

$$35 \times 2 = 70$$

$$70 \times 1 = 70$$

So, the factors of 144 are

(1, 2, 5, 7, 10, 14, 35, 70)