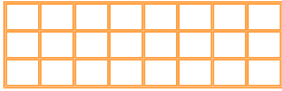


Factors



1. **a.** This picture shows that _____ and _____ are factors of 24.
- b.** Draw other pictures that show factors of 24.

c. List all factors of 24:

2. Factors are like "building blocks" when you are using multiplication to make numbers. For example, $2 \times 6 = 12$, so 2 and 6 are factors of 12.

a. Write 36 as a product of two factors.

$$\underline{\quad} \times \underline{\quad} = 36 \qquad \underline{\quad} \times \underline{\quad} = 36$$

$$\underline{\quad} \times \underline{\quad} = 36 \qquad \underline{\quad} \times \underline{\quad} = 36$$

$$\underline{\quad} \times \underline{\quad} = 36 \qquad \underline{\quad} \times \underline{\quad} = 36$$

List all factors of 36:

b. Write 40 as a product of two factors.

$$\underline{\quad} \times \underline{\quad} = 40 \qquad \underline{\quad} \times \underline{\quad} = 40$$

$$\underline{\quad} \times \underline{\quad} = 40 \qquad \underline{\quad} \times \underline{\quad} = 40$$

$$\underline{\quad} \times \underline{\quad} = 40 \qquad \underline{\quad} \times \underline{\quad} = 40$$

List all factors of 40:

c. Is 6 a factor of 35?
Is 35 divisible by 6?

Is 8 a factor of 18?
Is 18 divisible by 8?

Is 70 a factor of 420?
Is 420 divisible by 70?

d. How can you check if 11 is a factor of 3,289? Is it?

3. Prove your answer.

a. Is 2 a factor of 18 ?

Yes, because

b. Is 5 a factor of 45 ?

c. Is 20 a factor of 430 ?

d. Is 7 a factor of 385 ?

4. List as many factors of the given number as you can find.

a. 15

d. 48

g. 20

b. 25

e. 30

h. 32

c. 42

f. 60

i. 100