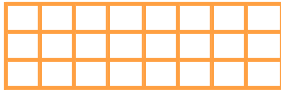


# Factors



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.

<p>a. Write 36 as a product of two factors.</p> <p>____ <math>\times</math> ____ = 36      ____ <math>\times</math> ____ = 36</p> <p>____ <math>\times</math> ____ = 36      ____ <math>\times</math> ____ = 36</p> <p>____ <math>\times</math> ____ = 36      ____ <math>\times</math> ____ = 36</p> <p>List all factors of 36:</p>	<p>b. Write 40 as a product of two factors.</p> <p>____ <math>\times</math> ____ = 40      ____ <math>\times</math> ____ = 40</p> <p>____ <math>\times</math> ____ = 40      ____ <math>\times</math> ____ = 40</p> <p>____ <math>\times</math> ____ = 40      ____ <math>\times</math> ____ = 40</p> <p>List all factors of 40:</p>
<p>c. Is 6 a factor of 35? Is 35 divisible by 6?</p> <p>Is 8 a factor of 18? Is 18 divisible by 8?</p> <p>Is 70 a factor of 420? Is 420 divisible by 70?</p>	<p>d. How can you check if 11 is a factor of 3,289? Is it?</p>

3. Prove your answer.

<p>a. Is 2 a factor of 18 ?</p> <p><u>Yes, because</u></p>	<p>b. Is 5 a factor of 45 ?</p>
<p>c. Is 20 a factor of 430 ?</p>	<p>d. Is 7 a factor of 385 ?</p>

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 |