Lesson 12
Factors of a Number

Here’s How

Find all of the factors of 20.

Whole numbers that can be multiplied to get another number are factors of that number.

$1 \times 20 = 20$  
First, think of all the pairs of factors that have a product of 20.

$2 \times 10 = 20$  
List each factor.

$4 \times 5 = 20$

1, 2, 4, 5, 10, and 20 are the factors of 20.

Try These

Finish each multiplication problem. Then list all the factors.

1. $1 \times 6 = 6$  
$2 \times \underline{=} = 6$

Factors of 6: 1, 6, 2,

2. $\underline{=} \times \underline{=} = 4$  
$\underline{=} \times \underline{=} = 4$

Factors of 4: ____, ____, ____,

3. $\underline{=} \times \underline{=} = 12$  
$\underline{=} \times \underline{=} = 12$  
$\underline{=} \times \underline{=} = 12$

Factors of 12: ____, ____, ____, ____, ____,

4. $\underline{=} \times \underline{=} = 16$  
$\underline{=} \times \underline{=} = 16$  
$\underline{=} \times \underline{=} = 16$

Factors of 16: ____, ____, ____, ____, ____,

Some numbers have only two factors.

5. $\underline{=} \times \underline{=} = 7$

Factors of 7: ____, ____,

6. $\underline{=} \times \underline{=} = 10$  
$\underline{=} \times \underline{=} = 10$

Factors of 10: ____, ____, ____, ____,
Write all of the factors of each number.

1. 8  
   
2. 15  
   
3. 10  
   
4. 5  
   
5. 18  
   
6. 25  
   
7. 11  
   
8. 30  
   
9. 9  
   
10. 24  
   
11. 32  

Use this space to write the multiplication problems if you need to.

30 has 8 factors! Be sure to list all of them.