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.
   $\underline{\text{___}} \times \underline{\text{___}} = 36$
   $\underline{\text{___}} \times \underline{\text{___}} = 36$
   $\underline{\text{___}} \times \underline{\text{___}} = 36$
   $\underline{\text{___}} \times \underline{\text{___}} = 36$
   
   List all factors of 36:

   b. Write 40 as a product of two factors.
   $\underline{\text{___}} \times \underline{\text{___}} = 40$
   $\underline{\text{___}} \times \underline{\text{___}} = 40$
   $\underline{\text{___}} \times \underline{\text{___}} = 40$
   $\underline{\text{___}} \times \underline{\text{___}} = 40$
   
   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?

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

3. Prove your answer.

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