

### Conversion Factor Practice for Stations

On your own paper, make 5 columns labelled “known”, “needed”, “relationship between known and needed” (conversion factors), “work shown”, and “answer”. See template from teacher.

Class example:

There are many kinds of measurements in the world. One that we are familiar with is the dozen.

We all know that a dozen = 12

This can be a dozen of anything. A dozen eggs, a dozen donuts.

How many eggs are in 12 dozen eggs?

Known	Needed	Relationship (Conversion Factor)	Shown Work	Answer
12 dozen eggs	# eggs	$\frac{12 \text{ eggs}}{1 \text{ dozen}}$	$12 \text{ dozen} \times \frac{12 \text{ eggs}}{1 \text{ dozen}}$	= 144 eggs

Conversion Factor Practice for Stations

1. How many donuts are there in 6 dozen?
  
2. Another measurement is called a ream. 1 ream = 500 sheets of paper  
How many sheets of paper are in 5 reams?
  
3. How many sheets of paper are in 6  $\frac{1}{2}$  reams? 1 ream = 500 sheets of paper
  
4. How many reams is 3,250 sheets of paper? 1 ream = 500 sheets of paper
  
5. Another measurement is a peck. 1 peck = 16 dry pints, How many pints are in 5 pecks?
  
6. How many pecks are in 35 dry pints? 1 peck = 16 dry pints
  
7. And yet another measurement is the acre. 1 acre = 43,560 sq ft
  
8. How many sq. feet are in 3 acres? 1 acre = 43,560 sq ft
  
9. How many acres are in 165,900 sq. ft? 1 acre = 43,560 sq ft
  
10. How many particles are in 3 moles?
  
11. How many particles are in 7.5 moles?
  
12. How many moles are in  $8.27 \times 10^{23}$  particles?
  
13. How many moles are in  $3.57 \times 10^{32}$  particles?
  
14. How many particles are in 75 moles?
  
15. How many moles are in  $3.27 \times 10^{18}$  molecules?
  
16. How many molecules are in 39.6 moles?