Measurements and Conversion Factors

There are many kinds of measurements in the world. One that we are familiar with is the dozen (= __12__)
You can have a dozen anything… eggs, donuts, buns, etc.
How many eggs are in 8 dozen eggs?

# of eggs = 8 dozen x $\dfrac{12 \text{ eggs}}{1 \text{ dozen}}$ = ____96____ eggs

How many donuts are there in 6 dozen?

# of donuts = 6 dozen x $\dfrac{12 \text{ eggs}}{1 \text{ dozen}}$ = 72 eggs.

How many dozens of timbits are in a box of 40 timbits?

# of dozens of timbits = 40 timbits · x $\dfrac{1 \text{ dozen}}{12 \text{ timbits}}$ = 3.3 dozens

Another measurement is called a ream. 1 ream = 500 sheets of paper.

List the possible conversion factors from the equation above:

# of sheets = x reams x $\dfrac{500 \text{ sheets}}{1 \text{ ream}}$, # of reams = $\dfrac{x \text{ sheets} \times 1 \text{ ream}}{500 \text{ sh}}$

Multiply the key values below by the correct conversion factor so that the given units cancel, and the required units remain.
How many sheets of paper are in 5 reams?

# of sheets of paper = 5 reams x $\dfrac{500 \text{ sheets}}{1 \text{ ream}}$ = 2500 sheets

How many reams are in 3 250 sheets of paper?

# of reams = 3250 sheets x $\dfrac{1 \text{ ream}}{500 \text{ sheets}}$ = 6.5 reams.