Name: _____

1. The ratio of boys to girls is 5:7 at Wake Robin High School.
    How many boys are there if there are 504 girls?

2. State the unit rate.

     a) $15.00 for 4 hours of work.   b) 100 m is 8 seconds

    _____   _____

3. In 7 minutes, a student can type 231 words. Suppose he continues at this rate.

     a) How many words can he type in 16 minutes?   b) How long would it take him to type 1155 words?

Name: _____

1. The ratio of boys to girls is 5:7 at Wake Robin High School.
   How many boys are there if there are 504 girls?

   $$boys : girls = boys : girls$$
   $$5 : 7 = X : 504$$

   $$(504)\frac{5}{7} = \frac{x}{504}(504)$$

   $$360 = x$$

   → There are 360 boys

2. State the unit rate.

   a) $15.00 for 4 hours of work.   b) 100 m is 8 seconds

   ____3.75 $/hour____   ____12.5 m/second____

3. In 7 minutes, a student can type 231 words. Suppose he continues at this rate.

   a) How many words can he type in 16 minutes?   b) How long would it take him to type 1155 words?

   $$Min : word = min : word$$
   $$7 : 231 = 16 : X$$

   $$\frac{7}{231} = \frac{16}{x}$$

   $$(16)\frac{231}{7} = \frac{x}{16}(16)$$

   $$528 = X$$

   ∴ He can type 528 words
   in 16 minutes

   $$7 : 231 = X : 1155$$

   $$(1155)\frac{7}{231} = \frac{x}{1155}(1155)$$

   $$35 = X$$

   ∴ it would take him
   35 minutes