Proportions Quiz (SOL 8.3) Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**I. State whether or not the following ratios are proportions. (yes or no)**

 1) 2 and 8 2) 6 and 3

 3 12 15 7

**II. Write the following situation as two ratios then determine whether or not they represent a proportion. (yes or no)**

1. ![MCj02821120000[1]]() Janice can type 250 words in 5 minutes while John can type 150 words in 3.5 minutes.
2. ![MCj02807680000[1]]() It takes Kevin 3 hours to cut 4 acres of grass while it takes Kelly 9 hours to cut 12 acres of grass.

**III. Solve the following proportions. You must show all work in order to receive credit.**

 5) 6 = 8 6) 2 miles in 14 minutes

 4 x 61 miles in *k* minutes

![MMj03364840000[1]]()7) Lea can fit 42 photographs onto 7 pages in her album. How many photographs can she fit onto 13 pages?

1. ![MCj03519050000[1]]()Marla helped her mother and father fold invitations and put them into envelopes. If Marla can fill 36 envelopes in 30 minutes, how long will it take her to fill 48 envelopes?
2. If Josh Hamilton hit 23 homeruns in the first 96 games of the season, about home many home runs will he hit in 133 games if he continues at the same pace?
3. Jim can solve 4 math problems in 7 minutes. At this rate, about how many problems can he solve in 25 minutes?

11) Sam knows that he can read 17 pages of his book in 30 minutes. He needs to finish his book in one and a half hours. Will he be able to finish his book in time if he still needs to read 50 more pages? EXPLAIN!