

Name : \_\_\_\_\_

## Direct and Inverse Variation

Sheet 3

Round your answer to two decimal places.

- 1) A 40-foot utility pole casts a 15-foot long shadow. At the same time, a tree beside the pole casts a shadow that is 12 feet long. Determine the height of the tree.

\_\_\_\_\_

- 2) Eighteen bottles of orange juice are packed in each of the 32 boxes. How many boxes will be required, if only 12 bottles are packed in each box?

\_\_\_\_\_

- 3) A church in Seattle received 1200 donations in 2015. If the same number of donations are received at a constant rate, how many donations will be received in 2016?

\_\_\_\_\_

- 4) A traditional diesel truck travels at a speed of 52 miles per hour. The latest hybrid electric truck travels at a speed of 60 miles per hour. Determine the speed at which the truck traveled.

\_\_\_\_\_

- 5) It took 500 workers to build a suspension bridge in 400 days. How many days will 800 workers take to complete the same task?

\_\_\_\_\_

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**Direct and Inverse Variation**

Round your answer to two decimal places.

- 1) A 40-foot utility pole casts a 15-foot long shadow. At the same time, a tree beside the pole casts a shadow that is 12 feet long. Determine the height of the tree.

**32 feet**

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- 2) Eighteen bottles of orange juice are packed in each of the 32 boxes. How many boxes will be required, if only 12 bottles are packed in each box?

**48 boxes**

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- 3) A church in Seattle received \$100,000 in donations at a constant rate, how much money will it receive in 5 years?

**\$51,562**

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- 4) A traditional diesel truck traveled 100 miles in 1.5 hours. The latest hybrid electric truck traveled the same distance in 1 hour. Determine the speed at which the truck traveled.

**67.83 miles per hour**

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- 5) It took 500 workers to build a suspension bridge in 400 days. How many days will 800 workers take to complete the same task?

**250 days**

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