

Name : _____

Direct Variation

Sheet 3

Round your answer to two decimal places.

- 1) Daryl hired a tile specialist to do up the walls in his home. The specialist used 24 tiles of the same size to cover a wall of 156 square feet. How many similar-sized tiles will be required to fill a wall measuring an area of 338 square feet?

- 2) A person's weight varies on each planet of the solar system. Sean weighs 150 pounds on Earth, but he will weigh only 90 pounds on Mars. How many pounds will a man weighing 115 pounds on Earth weigh on Mars?

- 3) A farmer harvested 120 bushels of corn from a 9-acre field in Iowa. How many bushels of corn will he harvest from a 15-acre field in Iowa?

- 4) Randall works for an hour and earns \$12. How many hours will he need to work to earn his earnings for 21 days?

- 5) The capacity of a 5 feet deep oval in-ground swimming pool is 23,600 gallons of water. How many gallons of water will be required to fill a similar-shaped pool that is 8 feet deep?

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Direct Variation

Round your answer to two decimal places.

- 1) Daryl hired a tile specialist to do up the walls in his home. The specialist used 24 tiles of the same size to cover a wall of 156 square feet. How many similar-sized tiles will be required to fill a wall measuring an area of 338 square feet?

52 tiles

- 2) A person's weight varies on each planet of the solar system. Sean weighs 150 pounds on Earth, but he will weigh only 9 pounds on Mars. How much would a man weighing 115 pounds on Earth weigh on Mars?

6.9 pounds

- 3) A farmer harvested 360 bushels of corn from a 9-acre field in Iowa. How many bushels of corn will he harvest from a 21-acre field in Iowa?

360 bushels

- 4) Randall works for an hour and earns \$84. How much money will he earn if he works for 21 days?

\$1,764

- 5) The capacity of a 5 feet deep oval in-ground swimming pool is 23,600 gallons of water. How many gallons of water will be required to fill a similar-shaped pool that is 8 feet deep?

37,760 gallons of water

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