

Name : _____

Inverse Variation

Sheet 2

Round your answer to two decimal places.

- 1) A poultry farm has supplies enough for 10 days to feed 200 chickens. If 250 chickens are in the farm, how many days will the poultry feed last?

- 2) It takes 18 hours to fill a swimming pool with water at the rate of 6 gallons per minute. If it is filled at the rate of 9 gallons per minute, how long will it take to reach its maximum capacity?

- 3) The freezing point of a mixture of two substances is -10°C when the ratio of the two substances is 1:2. Determine its freezing point when the ratio is 2:1.

- 4) Eight men take 4.5 hours to complete a job. How long will it take 18 men to complete the same job?

- 5) The price of a bond varies inversely with the interest rate. When the bond price falls to \$800, the interest rate goes up to 12.5%. Calculate the fall in the interest rate, if the price of the bond rises to \$1,200.

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Inverse Variation

Round your answer to two decimal places.

- 1) A poultry farm has supplies enough for 10 days to feed 200 chickens. If 250 chickens are in the farm, how many days will the poultry feed last?

8 days

- 2) It takes 18 hours to fill a swimming pool with water at the rate of 6 gallons per minute. If it is filled at the rate of 9 gallons per minute, how long will it take to reach its maximum capacity?

12 hours

- 3) The freezing point of a mixture of two substances is -10°C when the ratio of the two substances is 1:2. Determine its freezing point when combined in the ratio 2:1.

167.73 $^{\circ}\text{C}$

- 4) Eight men take 4.5 hours to complete a job. How long will it take 18 men to complete the same job?

2 hours

- 5) The price of a bond varies inversely with the interest rate. When the bond price falls to \$800, the interest rate goes up to 12.5%. Calculate the fall in the interest rate, if the price of the bond rises to \$1,200.

8.33%

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