

Name : _____

Inverse Variation

Sheet 1

Round your answer to two decimal places.

- 1) A group of 49 hikers registered for an 8-day trekking trip. The organizers arranged food to last for the entire trip. A few last minute registrations saw more hikers join the expedition. As a result, the food lasted only for 7 days. How many hikers in all went trekking?

- 2) Scarlett brought a pack of candies for 25 students. She plans to distribute 4 candies to each of her classmates. If five of them were absent, how many candies did each get?

- 3) At a science exhibition, students learnt that it takes 5 hours for a block of ice to melt at 32°C . Determine the time taken to melt a similar-sized block of ice at 20°C .

- 4) A group of 8 friends planned to hire a limousine for a special event. They decide to contribute \$64 each to pay towards the cost of renting the limo. How much will each have to contribute, if 3 friends did not turn up?

- 5) An airplane travels at a speed of 582 miles per hour to reach its destination in 4 hours. Determine the duration of the flight, if the airplane travels at a speed of 388 miles per hour.

Name : _____

Answer key

Inverse Variation

Sheet 1

Round your answer to two decimal places.

- 1) A group of 49 hikers registered for an 8-day trekking trip. The organizers arranged food to last for the entire trip. A few last minute registrations saw more hikers join the expedition. As a result, the food lasted only for 7 days. How many hikers in all went trekking?

56 hikers

- 2) Scarlett brought a pack of candies for 25 students. She plans to distribute 4 candies to each of her classmates. If five of them were absent, how many candies did each get?

5 candies

- 3) At a science exhibition, students learnt that it takes 5 hours for a block of ice to melt at 32° C. Determine the time taken to melt a similar-sized block of ice at 20° C.

8 hours

- 4) A group of 8 friends planned to hire a limousine for a special event. They decide to contribute \$64 each to pay towards the cost of renting the limo. How much will each have to contribute, if 3 friends did not turn up?

\$102.40

- 5) An airplane travels at a speed of 582 miles per hour to reach its destination in 4 hours. Determine the duration of the flight, if the airplane travels at a speed of 388 miles per hour.

6 hours