

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

## Mixed Review

Sheet 2

Round your answer to two decimal places.

- 1) Sgt. Fletcher of the US Quartermaster Corps is in charge of stores and supplies in a military base with 806 soldiers. The food stock is sufficient for 26 days. How many days will the supply of food last, if there are 676 soldiers?

\_\_\_\_\_

- 2) The cephalic index of a subject varies directly with maximum width of the head and inversely with its length. A subject with a maximum width of 15 cm has a cranial index of 80. Calculate the cranial index of a subject whose maximum width is 15.75 cm and head length is 19.94 cm.

\_\_\_\_\_

- 3) A passenger cruise ship is traveling at a speed of 21 knots to reach its destination. How many hours will it take to reach its destination if it accelerates the speed to 24 knots?

\_\_\_\_\_

- 4) The surface area of a cone is 150 square inches. The radius of the base is 3 inches. Determine the slant height of the cone. Esther created a festive party hat with a surface area of 150 square inches and slant height of 4 inches.

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- 5) Jared spends \$1,315 on accommodation for a 5-day trip to New York city. If he extends his stay for 7 more days, how much would Jared have to pay for his entire stay?

\_\_\_\_\_

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**Mixed Review**

Round your answer to two decimal places.

- 1) Sgt. Fletcher of the US Quartermaster Corps is in charge of stores and supplies in a military base with 806 soldiers. The food stock is sufficient for 26 days. How many days will the supply of food last, if there are 676 soldiers?

**31 days**

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- 2) The cephalic index of a subject varies directly with maximum width of the head and inversely with its length. A subject with a maximum width of 15 cm has a cranial index of 80. Calculate the cranial index of a subject whose maximum width is 15.75 cm and head length is 19.94 cm.

**78.99**

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- 3) A passenger cruise ship is traveling at a speed of 21 knots to reach its destination. How many hours will it take to reach a destination 420 nautical miles away if it accelerates the speed to 24 knots?

**42 hours**

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- 4) The surface area of a cone is 37.68 square inches. Determine the radius of the cone if the slant height of the cone is 4 inches.

**37.68 square inches**

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- 5) Jared spends \$1,315 on accommodation for a 5-day trip to New York city. If he extends his stay for 7 more days, how much would Jared have to pay for his entire stay?

**\$3,156**

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