

Math Practice Unit 1

1. In the metric system, land area is expressed in hectares. A hectare (ha) is 100 meters by 100 meters. In the United States, land area is most commonly expressed in acres. There are 2.47 acres in 1 ha. A particular farmer has 30,000 acres. Determine its size in hectares.

$$\text{Equation: } 2,472 = 2.5$$

$$\frac{30,000 \text{ acres}}{2.472 \text{ acres/ha}} = 12,132 \text{ ha}$$

2. It is estimated that the world loses 37,614,400 hectares of forest per year based on an estimate of 1 acre of forest cleared per second. Determine whether the state of New Jersey, Virginia, or Texas is closest to one to 12,614,400 hectares. Be sure to show all your work. You will need the following information to solve this problem: Approximately 2.5 acres = 1 hectare (ha) = 1 square mile = 640 acres =

New Jersey is 8,721 square miles = $\frac{8,721 \text{ square miles} \times 640 \text{ acres}}{1 \text{ square mile}} = 5,581,440 \text{ acres}$

Virginia is 42,774 square miles = $\frac{42,774 \text{ square miles} \times 640 \text{ acres}}{1 \text{ square mile}} = 27,375,360 \text{ acres}$

Texas is 696,961 square miles = $\frac{696,961 \text{ square miles} \times 640 \text{ acres}}{1 \text{ square mile}} = 446,055,040 \text{ acres}$

3. Use the following problems to practice calculating averages. Be sure to show all your work.

- If the average hybrid has a range of 540 miles, and has a fuel economy of 54 miles/gallon, how many gallons can the tank hold?

$$\frac{540 \text{ miles}}{54 \text{ mpg}} = 10 \text{ gallons}$$

- If gasoline costs an average of \$2.50/gallon, how much does it cost to fill the tank with gas?

$$\frac{10 \text{ gallons} \times \$2.50}{1 \text{ gallon}} = \$25.00$$

- If the average car, with a fuel economy of 25 miles/gallon, were to travel 540 miles, how many gallons would be used in that trip?

$$\frac{540 \text{ miles}}{25 \text{ mpg}} = 21.6 \text{ gallons}$$

- How much would it cost to drive that car the 540 miles?

$$\frac{21.6 \text{ gallons} \times \$2.50}{1 \text{ gallon}} = \$54.00$$

- Which car costs more to drive?

The average car costs more to drive than the hybrid.

4. A web search of environmental organizations yielded a range of estimates of the amount of forest clearing that is occurring worldwide.

Estimate 1: 1 acre per second

Estimate 2: 80,000 acres per day

Estimate 3: 12,000 ha per day

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