

# Units



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1. A grocery store normally sells lemonade for \$3.50 per bottle. The grocery store is currently having a sale on lemonade which advertises 6 bottles for only \$13.50. How much cheaper is the lemonade on sale per bottle compared to the normal price per bottle?

- A. \$0.75
- B. \$1.25
- C. \$1.75
- D. \$2.25

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2. One study estimated that bears populate the Kenai Peninsula of Alaska at a rate of 42 bears per 1000  $km^2$  of available habitat. According to this study, about how many bears would you expect to find in a habitable region of this peninsula 8500  $km^2$  in size?

- A. 24
- B. 200
- C. 357
- D. 3035

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3. In August 2009, Usain Bolt ran 100 meters in 9.58 seconds (sec), setting the world record at that time. There are approximately 1.094 yards (yd) in a meter. What was Usain Bolt's average speed in yards per second?

- A.  $9.54 \frac{yd}{sec}$
- B.  $9.58 \frac{yd}{sec}$
- C.  $10.44 \frac{yd}{sec}$
- D.  $11.42 \frac{yd}{sec}$

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4. According to the United States Census Bureau, on September 1, 2014, the population of the United States was increasing by 1 person every 12 seconds. At this rate, by how much would the population of the United States increase in 1 year?

- A. 43,800
- B. 525,600
- C. 2,628,000
- D. 31,536,000

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5. An ancient Chinese candle clock tells the amount of time that has passed by the amount of wax that has been melted off the candle. Each candle is divided into 12 sections, marked 1 inch (in) apart. It takes 4 hours (hrs) for each candle to completely melt, after which a new candle is lit. If two candles have completely melted and one candle has melted 4 in, how many minutes have passed since the first candle was lit?

- A. 480 minutes
- B. 500 minutes
- C. 560 minutes
- D. 600 minutes

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6. Which of the following cities had the largest population density in 2010?  
(Population density is defined to be the number of people per square mile.)

- A. Boston
- B. Chicago
- C. Miami
- D. Philadelphia

City	2010 census population	Area (in square miles)
Boston	645,149	48.43
Chicago	2,695,598	227.13
Miami	362,470	35.67
Philadelphia	1,517,550	135.09

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7. When traveling in France, Joe purchased gas which cost 1.45 euros per liter. If at the time of the purchase 1 euro was worth \$1.35, what was the approximate cost, in dollars, of one gallon of gas?

Note: 1 gallon is approximately 3.785 liters.

- A. \$0.52
- B. \$3.52
- C. \$4.07
- D. \$7.40

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8. In 2012, an 11-year-old cheetah set a new record by running 100 meters in 5.95 seconds. During this record-breaking run, at what approximate speed was the cheetah traveling in miles per hour?

Note: There are 1.6 kilometers in 1 mile.

- A. 16.81 miles per hour
- B. 34.27 miles per hour
- C. 37.82 miles per hour
- D. 60.50 miles per hour

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9. A generator produces  $6.5 \times 10^2$  kilojoules per centisecond ( $\frac{kJ}{cs}$ ). A watt is equivalent to 1 joule per second  $\frac{J}{s}$ . What is the measured power of the generator in watts?

- A.  $6.5 \times 10^7$  watts
- B.  $6.5 \times 10^3$  watts
- C.  $6.5 \times 10^1$  watts
- D.  $6.5 \times 10^3$  watts

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