

Unit 2A Test 3

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Choose the correct answer to each problem.

1. Which of the following is a conversion factor?
(a) feet per second (b) 8 ounces = 1 cup ~~(c)~~ $A = lw$ (d) 180 miles
2. Suppose your car gets 28 miles per gallon of gasoline, and you are driving at 55 miles per hour. Using unit analysis, find the amount of gas you use every hour.
(a) 1.45 gallons (b) 1.96 gallons (c) 0.75 gallons ~~(d)~~ 0.51 gallons
3. Suppose you drive 320 miles at a speed of 60 miles per hour. How many hours does that trip take?
(a) 0.89 hour ~~(b)~~ 5.3 hours (c) 6.4 hours (d) 3.8 hours
4. An acre is equal to 43,560 square feet, and there are 5280 feet in a mile. If a farm has the shape of a rectangle measuring 0.9 miles by 1.5 miles, what is the area of the farm in acres?
(a) 0.164 acre (b) 11.14 acres ~~(c)~~ 864 acres (d) 1050 acres
5. You need to buy a carpet that measures 7.5 yards long and 5 yards wide and costs \$49.50 per square yard. How much will the carpet for the room cost?
(a) \$618.75 ~~(b)~~ \$1856.25 (c) \$5692.50 (d) \$1237.50
6. Given that 1 meter = 100 centimeters, find the number of cubic centimeters in a cubic meter.
(a) 100 (b) 10,000 ~~(c)~~ 1,000,000 (d) 100,000,000
7. Convert 9 feet to inches.
(a) 0.75 inches ~~(b)~~ 108 inches (c) 1.33 inches (d) 27 inches
8. If U.S. \$1 = 7.82 Hong Kong dollars, what is the value of 25 Hong Kong dollars in U.S. dollars?
~~(a)~~ \$195.50 (b) \$3.20 (c) \$0.31 (d) \$31.20
9. If a Norwegian kroner is worth \$0.16, what is the value of \$5.00 in kroners?
~~(a)~~ 0.80 kroners (b) 14.9 kroners (c) 5.43 kroners (d) 31.25 kroners
10. If your heart beats 70 times per minute, how many times does your heart beat in 6 days?
(a) 25,200 (b) 201,600 ~~(c)~~ 604,800 (d) 36,288,000