- 1. Convert as indicated; round to the nearest tenth as needed:
 - (a) \$6.75 per hour to cents per minute
 - (b) 12 cents per day to dollars per year
 - (c) \$12 per square yard to cents per square inch
 - (d) 65 miles per hour to feet per second
 - (e) 3 watts per hour to kilowatts per week
 - (f) 3 square meters per minute to square centimeters per second
 - (g) 6 liters per second to kiloliters per hour
 - (h) a fourth of a kilogram per day to grams per hour
 - (i) 16 feet per second to meters per second $(2.54 \ cm = 1 \ in)$
 - (j) Challenge: 350 in^3 to liters $(1 \ dm^3 = 1 \ \ell)$
- 2. Convert as indicated; round to the nearest tenth as needed:
 - (a) 2.5 foot-pounds to inch-ounces
 - (b) 32 feet per second per second $\left(\frac{ft}{sec^2}\right)$ to kilometers per minute per minute $\left(\frac{km}{min^2}\right)$
 - (c) 25 man-hours to team-minutes, where 1 team equals 10 men/people
 - (d) 6.5 kilowatt-hours to watt-seconds
 - (e) 19.5 kg-meters per second to foot-pounds per minute (2.2 lb = 1 kg, 2.54 cm = 1 in)
 - (f) \$4.53 per day to minutes per penny
 - (g) 75,432 square feet per hour to days per square mile
 - (h) \$6.75 per kilowatt-hour to watt-minutes per penny
 - (i) 7.3 miles per hour to seconds per yard

- 1. (a) 11.3 cents per minute
 - (b) \$43.80 per year
 - (c) 0.9 cents (not 90 cents!) per square inch
 - (d) 95.3 feet per second
 - (e) 0.5 kW per week
 - (f) 500 cm^2 per second
 - (g) 21.6 k ℓ per hour
 - (h) 10.4 grams per hour
 - (i) 4.9 meters per second
 - (j) 5.7 ℓ

2. (a) 480 $in \cdot oz$

- (b) 35.1 km per min^2
- (c) 150 $team \cdot minutes$
- (d) 23,400,000 $W \cdot sec$
- (e) 8444.9 ft-lb per minute
- (f) 3.2 minutes per penny
- (g) 15.4 days per square mile
- (h) 88.9 watt-minutes per penny
- (i) 0.3 seconds (per 1 yard)