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 $(2.54 \mathrm{~cm}=1 \mathrm{in})$
(j) Challenge: $350 \mathrm{in}^{3}$ to liters $\left(1 \mathrm{dm}^{3}=1 \ell\right)$
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 $\left(\frac{f t}{\mathrm{sec}^{2}}\right)$ to kilometers per minute per minute $\left(\frac{\mathrm{km}}{\mathrm{min}^{2}}\right)$
(c) 25 man-hours to team-minutes, where 1 team equals $10 \mathrm{men} /$ people
(d) 6.5 kilowatt-hours to watt-seconds
(e) 19.5 kg -meters per second to foot-pounds per minute $(2.2 \mathrm{lb}=1 \mathrm{~kg}, 2.54 \mathrm{~cm}=1 \mathrm{in})$
(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
3. (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) $500 \mathrm{~cm}^{2}$ per second
(g) $21.6 \mathrm{k} \ell$ per hour
(h) 10.4 grams per hour
(i) 4.9 meters per second
(j) $5.7 \ell$
4. (a) $480 \mathrm{in} \cdot \mathrm{oz}$
(b) 35.1 km per $\mathrm{min}^{2}$
(c) 150 team $\cdot$ minutes
(d) $23,400,000 \mathrm{~W} \cdot \mathrm{sec}$
(e) $8444.9 \mathrm{ft}-\mathrm{lb}$ 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)
