Unit Conversion and Word Problems Worksheet Answer Key

No One Said Life Was Fahrenheit

- 1. Convert 40° F to Celsius. $\frac{5}{9}(40 32) = 4.4^{\circ}$ C
- 2. How long does a car traveling at 45 mph take to travel 80 mi, in hours? $\frac{80}{45} = 1.8 \text{ hrs}$
- 3. Convert 98°C to Fahrenheit. $\frac{9}{5}(98) + 32 = 212$ °F
- 4. Sarah can run at a speed of 5 mph. How many miles can she cover in 5 minutes? She runs 5 miles in 60 minutes, so she covers $\frac{5}{12} = 0.42$ mi in 5 minutes.
- 5. A store sells coffee for \$34 per bag. If a bag contains 6 lbs, find the cost of coffee per pound. $\frac{34}{6} = \$5.67$
- 6. A bag of Skittles weighs 80 ounces. How heavy is the bag in pounds?

$$\frac{80}{16} = 5 \text{ lbs}$$

- 7. You put \$250 in the bank and receive 5% annual interest. How much money do you have after 2 years? 280(1+0.05) = \$294 after 1 year, and 294(1+0.05) = \$308.70 after 2 years.
- 8. Abby weighs 120 pounds. How much does she weigh in kilograms? $0.454 \times 120 = 54.48 \text{ kg}$
- 9. The average speed of a sprinter is 12.5 yds/sec. How many meters does he run in 1 minute? (1 yd = 0.91 m) 750 yds = 682.5 m
- 10. The area of a square box is 64 in^2 . What is its length in cm? Length= $8 \text{ in} = 8 \times 2.54 \text{ cm} = 20.32 \text{ cm}$

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