Answer Key · Lesson 7.5: Unit Conversions

School Launch · Pre-Algebra · Unit 7 · Worksheet A · for the parent

Key

1. 96 inches

Convert 8 feet to inches.

2. 540 minutes

Convert 9 hours to minutes.

3. 52800 feet

Convert 10 miles to feet.

4. 54 inches

1. $\frac{9}{2} \times 12 = 54$
2. (each unit is 12 smaller units)

Convert 4.5 feet to inches.

5. 47520 feet

1. $9 \times 5280 = 47520$
2. (each unit is 5280 smaller units)

Convert 9 miles to feet.

6. 10560 feet

1. $2 \times 5280 = 10560$
2. (each unit is 5280 smaller units)

Convert 2 miles to feet.

7. 108 inches

1. $9 \times 12 = 108$
2. (each unit is 12 smaller units)

Convert 9 feet to inches.

8. ≈ 49.9 ft/s

1. $\frac{34\text{ mi}}{1\text{ h}} \times \frac{5280\text{ ft}}{1\text{ mi}} \times \frac{1\text{ h}}{3600\text{ s}}$

Convert 34 miles per hour to feet per second. Round to the nearest tenth.

9. ≈ 99.7 ft/s

1. $\frac{68\text{ mi}}{1\text{ h}} \times \frac{5280\text{ ft}}{1\text{ mi}} \times \frac{1\text{ h}}{3600\text{ s}}$

Convert 68 miles per hour to feet per second. Round to the nearest tenth.

10. ≈ 52.8 ft/s

1. $\frac{36\text{ mi}}{1\text{ h}} \times \frac{5280\text{ ft}}{1\text{ mi}} \times \frac{1\text{ h}}{3600\text{ s}}$

Convert 36 miles per hour to feet per second. Round to the nearest tenth.