

Name _____

Speed, Space, and Motion Answer Key

1. $60 \times 1.609 = \mathbf{96.54 \text{ km/h}}$

2. $10 \times 3.6 = \mathbf{36 \text{ km/h}}$

3. $90 \div 3.6 = \mathbf{25 \text{ m/s}}$

4. $12 \times 0.447 = \mathbf{5.36 \text{ m/s}}$

5. $100 \times 0.621 = \mathbf{62.1 \text{ mph}}$

6. $250 \times 3.6 = \mathbf{900 \text{ km/h}}$

7. $300 \times 0.621 = \mathbf{186.3 \text{ mph}}$

8. $20 \times 3.6 = \mathbf{72 \text{ km/h}}$

9. $7,800 \times 3.6 = \mathbf{28,080 \text{ km/h}}$; $7,800 \div 0.447 = \mathbf{17,454 \text{ mph}}$

10. $17,500 \times 1.609 = \mathbf{28,257 \text{ km/h}}$

11. $210,000 \div 3.6 = \mathbf{58,333.33 \text{ m/s}}$; $210,000 \times 0.621 = \mathbf{130,410 \text{ mph}}$