

Name _____

The Amusement Park Expansion (Real-World Applications) Answer Key

1. $x - 425 = 175 \rightarrow x = 600 \text{ m}$

2. $120 - 90 = x = 30 \text{ m}^2 \text{ difference}$

3. $4x = 36 \rightarrow x = 9 \text{ m}^3 \text{ per section}$

4. $x = 4 \times 2,400 \rightarrow x = 9,600 \text{ L}$

5. $8,000 - x = 6,500 \rightarrow x = 1,500 \text{ kg difference}$

6. $x + 3x = 800 \rightarrow 4x = 800 \rightarrow x = 200 \text{ m (lake path), } 600 \text{ m (park path)}$

7. $10x = 1,250 \rightarrow x = 125 \text{ m per ride}$

8. $3 \times 2.5 = 7.5 \text{ m total}$

9. $8 \times 650 = 5,200 \text{ kg total}$

10. $15,000 - 9,500 = 5,500 \text{ L remaining}$

11. $12x = 180 \rightarrow x = 15 \text{ m long}$

12. $(4x) + 200 = 1,000 \rightarrow 4x = 800 \rightarrow x = 200 \text{ kg per pad}$