Name: _____

Volume and Surface Area Word Problems

Decide whether each problem asks for volume or surface area. Then solve.

1. How much wrapping paper covers a box that is 7 in by 7 in by 9 in? (Find the surface area.)

Answer: _____

2. A cube has edges of 12 cm. What is its surface area?

Answer: _____

3. A cube has edges of 9 ft. What is its volume?

Answer: _____

4. A box is 2 1/2 m long, 2 1/2 m wide and 6 1/2 m tall. What is its volume?

Answer: _____

5. A tank with no lid is 5 ft long, 6 ft wide and 2 ft deep. How much glass is needed for the 4 sides and bottom?

Answer: _____

6. How much wrapping paper covers a box that is 5 in by 4 in by 6 in? (Find the surface area.)

Answer: _____

7. A cube has edges of 6 cm. What is its surface area?

Answer: _____

8. A cube has edges of 2 ft. What is its volume?

Answer: _____

9. A box is 3 1/2 ft long, 2 1/2 ft wide and 5 1/2 ft tall. What is its volume?

Answer: _____

10. A tank with no lid is 8 ft long, 5 ft wide and 6 ft deep. How much glass is needed for the 4 sides and bottom?

Answer: _____

Name: **ANSWER KEY**

Volume and Surface Area Word Problems

Decide whether each problem asks for volume or surface area. Then solve.

1. How much wrapping paper covers a box that is 7 in by 7 in by 9 in? (Find the surface area.)

Answer: 350 sq in

2. A cube has edges of 12 cm. What is its surface area?

Answer: 864 sq cm

3. A cube has edges of 9 ft. What is its volume?

Answer: 729 cubic ft

4. A box is 2 1/2 m long, 2 1/2 m wide and 6 1/2 m tall. What is its volume?

Answer: $40\frac{5}{8}$ cubic m

5. A tank with no lid is 5 ft long, 6 ft wide and 2 ft deep. How much glass is needed for the 4 sides and bottom?

Answer: 74 sq ft

6. How much wrapping paper covers a box that is 5 in by 4 in by 6 in? (Find the surface area.)

Answer: 148 sq in

7. A cube has edges of 6 cm. What is its surface area?

Answer: 216 sq cm

8. A cube has edges of 2 ft. What is its volume?

Answer: 8 cubic ft

9. A box is 3 1/2 ft long, 2 1/2 ft wide and 5 1/2 ft tall. What is its volume?

Answer: $48\frac{1}{8}$ cubic ft

10. A tank with no lid is 8 ft long, 5 ft wide and 6 ft deep. How much glass is needed for the 4 sides and bottom?

Answer: 196 sq ft