Name: _____   Date _____

Topic: <u>Volume Word Problems 5 Pack - Worksheet 1</u>

Complete the following word problems

1. **How much salt is needed to fill a pit that is 10m deep and 8m wide and 12 m long?**

2. **Two spheres M and N have volumes of 250 cubic cm and 750 cubic cm respectively. Find the ratio of their radii.**

3. **Cylinder X has a base radius of 7 m and a height of 2 m. Cylinder Y has a base radius of 4 m and a height of 7 m. Find the ratio of their volumes.**

4. **Five metal cubes with sides of 5 cm are melted and casted into a spherical ball. Find the volume of the sphere that is formed.**

5. **What is the volume of a regular cylinder whose base has a radius of 7 cm and a height of 2 cm?**

6. **Find out the volume of a box with the dimensions 4 m × 5 m × 6 m.**

7. **Fifty metal spheres with the radii of 4 m are melted and this melted solution is poured into a box with base dimensions of 2 m × 6 m. Find the height of the cube filled with solution.**

8. **A cubical box with the dimensions 3 × 3 × 2 is melted into another cube whose width is 15. Find the length and height of cube formed if l=h.**

9. **Find the volume of a right circular cone-shaped building with a height of 3cm and a radius of base 14 cm.**

10. **A cylinder has a radius of 2 inches and a height of 7 inches. What is the volume of this cylinder?**

Name: _____   Date _____

Topic: <u>Volume Word Problems 5 Pack - Worksheet 2</u>

Complete the following word problems

1. **How much sand is needed to fill a pit that is 5m deep and 6m wide and 8 m long?**

2. **Two spheres A and B have volumes of 150 cubic cm and 50 cubic cm respectively. Find the ratio of their radii.**

3. **Cylinder P has a base radius of 1.4 m and a height of 3 m. Cylinder Q has a base radius of 2 m and a height of 2.1 m. Find the ratio of their volumes.**

4. **Two metal cubes with sides of 4 cm are melted and casted into a spherical ball. Find the radius of sphere so formed.**

5. **What is the volume of a regular cylinder whose base has a radius of 3 cm and a height of 14 cm?**

6. **Find out the volume of a box with the dimensions 2 m × 3 m × 6 m.**

7. **Five metal spheres with the radii of 2 m are melted and this melted solution is poured into a box with base dimensions of 3 m ×2 m. Find the height of the cube filled with solution.**

8. **A cubical box with the dimensions 2 × 3 × 4 is melted into another cube whose width is 12. Find the length and height of cube formed if l=w.**

9. **Find the volume of a right circular cone-shaped building with a height of 9cm and a radius of base 7 cm.**

10. **A cylinder has a radius of 3 inches and a height of 14 inches. What is the volume of this cylinder?**

Name: _____   Date _____

Topic: <u>Volume Word Problems 5 Pack - Worksheet 3</u>

Complete the following word problems

1. How much salt is needed to fill a jar that is 3m deep and 5m wide and 8 m long?

2. Two spheres A and B have volumes of 75 cubic cm and 25 cubic cm respectively. Find the ratio of their radii.

3. Cylinder E has a base radius of 2 m and a height of 7 m. Cylinder F has a base radius of 5 m and a height of 2.1 m. Find the ratio of their volumes.

4. Three metal cubes with sides of 3 cm are melted and casted into a spherical ball. Find the volume of the sphere that is formed.

5. What is the volume of a regular cylinder whose base has a radius of 2 cm and a height of 7 cm?

6. Find out the volume of a box with the dimensions 4 m × 3 m × 3 m.

7. Forty-two metal spheres with the radii of 4m are melted and this melted solution is poured into a box with base dimensions of 5 m ×2 m. Find the height of the cube filled with solution.

8. A box-shaped box with the dimensions 7 × 3 × 2 is melted into another cube whose width is 5. Find the length and height of cube formed if l=h.

9. Find the volume of a right circular cone-shaped building with a height of 6cm and a radius of base 14 cm.

10. A cylinder has a radius of 9 inches and a height of 7 inches. What is the volume of this cylinder?

Name: _____   Date _____

Topic: <u>Volume Word Problems 5 Pack - Worksheet 4</u>

Complete the following word problems

1.   How much water is needed to fill a jug that is m 7 deep and 9m wide and 8 m long?

2.   Two spheres F and G have volumes of 264 cubic cm and 176 cubic cm respectively. Find the ratio of their radii.

3.   Cylinder P has a base radius of 3m and a height of 14 m. Cylinder Q has a base radius of 6 m and a height of 7 m. Find the ratio of their volumes.

4.   Five metal cubes with sides of 5 cm are melted and casted into a spherical ball. Find the volume of the sphere that is formed.

5.   What is the volume of a regular cylinder whose base has a radius of 4 cm and a height of 14 cm?

6.   Find out the volume of a box with the dimensions 12 m × 13 m × 3 m.

7.   Seven metal spheres with the radii of 3 m are melted and this melted solution is poured into a box with base dimensions of 4 m × 2 m. Find the height of the cube filled with solution.

8.   A cubical box with the dimensions 12 × 14 × 9 is melted into another cube whose width is 6. Find the length and height of cube formed if l=w.

9.   Find the volume of a right circular cone-shaped building with a height of 12 cm and a radius of base 7 cm.

10.   A cylinder has a radius of 12 inches and a height of 14 inches. What is the volume of this cylinder?

Name: _____   Date _____

Topic: <u>Volume Word Problems 5 Pack - Worksheet 5</u>

Complete the following word problems

1.   How much juice is needed to fill a glass that is m 9 deep and 5m wide and 12 m long?

2.   Two spheres X and Y have volumes of 256 cubic cm and 125 cubic cm respectively. Find the ratio of their radii.

3.   Cylinder M has a base radius of 6m and a height of 2.1 m. Cylinder N has a base radius of 5 m and a height of .7 m. Find the ratio of their volumes.

4.   Six metal cubes with sides of 6 cm are melted and casted into a spherical ball. Find the volume of the sphere that is formed.

5.   What is the volume of a regular cylinder whose base has a radius of 5 cm and a height of 21 cm?

6.   Find out the volume of a box with the dimensions 14 m × 15 m × 9 m.

7.   Fifteen metal spheres with the radii of 7 m are melted and this melted solution is poured into a box with base dimensions of 5 m ×2 m. Find the height of the cube filled with solution.

8.   A cubical box with the dimensions 11 × 14 × 5 is melted into another cube whose width is 5. Find the length and height of cube formed if l=h.

9.   Find the volume of a right circular cone-shaped building with a height of 15 cm and a radius of base 14 cm.

10.   A cylinder has a radius of 3 inches and a height of 28 inches. What is the volume of this cylinder?