

**CHAPTER 12 REVIEW WORKSHEET**

<p>22. A right pentagonal prism has height 12 and base edges 1.3, 2.4, 6.3, 3.2, and 4.1. Find the lateral area. _____</p> <p>23. Find the lateral area, total area, and volume of a cone with radius 21 and slant height 29. L.A. = _____, T.A. = _____, <math>V =</math> _____</p> <p>24. Find the volume and total area of a rectangular solid with length 6 cm, width 4 cm, and height 2 cm. <math>V =</math> _____, T.A. = _____</p> <p>25. Find the volume and lateral area of a regular square pyramid with base edge 6 cm and slant height 9 cm. <math>V =</math> _____, L.A. = _____</p> <p>26. Find the volume and lateral area of a cylinder with radius 3 cm and height 10 cm. <math>V =</math> _____, L.A. = _____</p> <p>27. Find the volume and area of a sphere with radius 11 cm. <math>V =</math> _____, <math>A =</math> _____</p> <p>28. Find the area of the circle formed when a plane passes 4 cm from the center of a sphere with radius 5 cm. _____</p> <p>29. Find the total area of a cube with volume <math>125 \text{ cm}^3</math>. _____</p> <p>30. Two similar cones have volumes <math>27\pi</math> and <math>64\pi</math>. Find the ratio of: a. the radii _____ b. the heights _____ c. the lateral areas _____</p> <p>31. Two similar cylinders have lateral areas <math>16 \text{ cm}^2</math> and <math>25 \text{ cm}^2</math>. Find the ratio of their volumes. _____</p> <p>32. The volumes of two similar solids are <math>216 \text{ cm}^3</math> and <math>64 \text{ cm}^3</math>. Find the ratio of their total areas. _____</p> <p>33. Two similar prisms have heights 18 m and 24 m. If the volume of the smaller prism is <math>54 \text{ m}^3</math>, find the volume of the larger prism. _____</p>	<p>22)</p> <p>24)</p> <p>26)</p> <p>28)</p> <p>30)</p>	<p>23)</p> <p>25)</p> <p>27)</p> <p>29)</p> <p>31)</p>
<p>30)</p>	<p>32)</p>	<p>33)</p>