Name

Answers

Date

11.4 – Volume of Prisms and Cylinders

Find the volume of each rectangular prism. Round to the nearest 0.1 if necessary.



- 4) The base is a square, 4.5 cm on a side. The height is 5 cm.
 - V= 4.5 × 4.5 × 5 = 101.25 ~ 101.3 cm³

5) The base is a rectangle with length 3.2 cm and width 4 cm. The height is 10 cm.

V= 3,2×4×10 = 128 cm 3

Find the volume of each triangular prism to the nearest tenth.





- The base is a right triangle with a leg of 12 in. and hypotenuse of 15 in. The height of the prism is 10 in.
- 9) The base is a 30°-60°-90° triangle with a hypotenuse of 10 m. The height of the prism is 15 m. Find the volume to the nearest tenth.



Find the volume of each cylinder in terms of π and to the nearest tenth.



- 12) a right cylinder with a radius of 3.2 cm and a height of 10.5 cm
- 13) a right cylinder with a diameter of 8 ft and a height of 15 ft.

V= BH = TTr2 H $= \pi x 3.2^2 \times 10.5$ = 107.5 T cm 3

V = BH $=\pi r^2 H$ = 11 × 42 × 15 = 240+ 4+3

Find the volume of each composite figure to the nearest whole tenth.













Find the value of x to the nearest tenth.

17) Volume: 576 cm^3

18) Volume: 980 mm^3

19) Volume: 602.88 cm³



$$V = BH$$

$$V = BH$$

$$V = bH$$

$$V = bH$$

$$V = bhH$$

$$V = bhH$$

$$V = bhH$$

$$V = bh H$$



10) What is the volume of the solid figure formed by the net?



