

Below are the notes we took today after the Circle Segments quiz.

Circle with center E is shown. The measure of $\angle CED = 145^\circ$ and the length of CE is 12 cm. What is the length of \widehat{CD} ?

A. $\frac{29\pi}{72}$ cm B. $\frac{29\pi}{3}$ cm
 C. $\frac{29\pi}{6}$ cm D. $\frac{29\pi}{2}$ cm

1

Volume of Prisms

V = Bh

B = area of BASE
 Base differs equations according to the shape the base is.
 h = HEIGHT of the solid

2

EX 1: Find the volume. $V = Bh$

What shape is the base? **Triangle**
 What is the height? **9**

$V = \frac{1}{2}(8)(6)(9)$
 $V = 216 \text{ m}^3$

3

EX 2: Find the volume. $V = Bh$

$V = (\frac{1}{2}bh)(h)$
 $V = \frac{1}{2}(4)(3)(9)$
 $= 30 \text{ in}^3$

4

EX 3: Find the volume. $V = Bh$

$V = (L \cdot w) \cdot h$
 $V = (8.5)(3.2)(13.7)$
 $= 372.64 \text{ ft}^3$

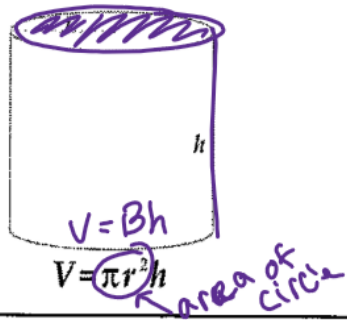
5

EX 4: Find the volume. $V = Bh$

Triangular Prism
Rectangular Prism

6

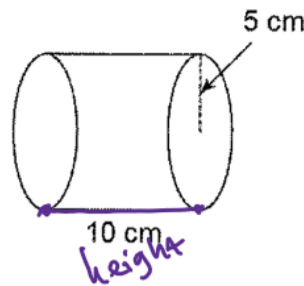
Volume of Cylinders



7

EX 5: Volume of a Cylinder

(leave in terms of pi) $V = \pi r^2 h$

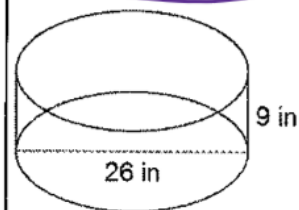


$$\pi(5)^2(10)$$
$$250\pi \text{ cm}^3$$

8

EX6: Volume of a Cylinder

(round to the nearest tenths)



$$r = 13$$
$$h = 9$$
$$V = \pi r^2 h$$
$$V = \pi(13)^2(9)$$
$$= 4778.4 \text{ in}^3$$

9

Below is the homework assignment for this weekend. Page 24 and 25.

Geometry

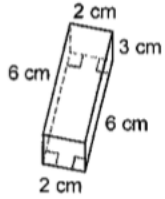
Name _____

Volume - Prisms and Cylinders

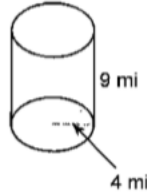
Date _____ Period _____

Find the volume of each figure. Round your answers to the nearest hundredth, if necessary.

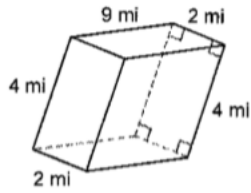
1)



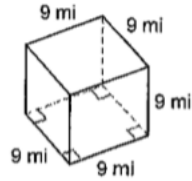
2)



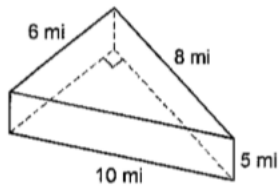
3)



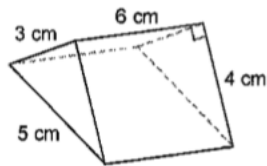
4)



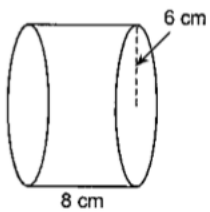
5)



6)



7)



8)

