Unit 6 Practice Test A 1. Determine the length of side DE on the parallelogram. F $6x + 48$ $9x - 3$ G L $(2x + 13)$ P			
$ \begin{array}{c} E \\ 6x + 48 \\ D \\ G \end{array} \\ G \end{array} \\ G $ $ \begin{array}{c} F \\ 9x - 3 \\ G \end{array} \\ F \\ (2x + 13) \\ P \end{array} \\ N \\ L \\ (4x + 23)^{\circ} \\ P \end{array} $			
Answer: Answer:			
3. Determine the value of <i>x</i> . 4. Determine the value of <i>x</i> . 64 ° 64 ° 64 °			
Answer: Answer:			
5. Determine the value of <i>x</i> , given that \overline{EF} is tangent to $\odot D$ at <i>E</i> . 6. Determine the volume of the squa 15 16 16 16	re pyramid.		
Answer: Answer:			
 7. A square prism has a volume of 50 <i>cm</i>³. Determine the base length if the height of the prism is 2 <i>cm</i>. 8. Determine the volume of a cone that height of 4 cm and a slant height of answer in terms of pi. 			
Answer: Answer:			
9. Determine the volume of the given sphere in terms of pi. 4 			
Answer: Answer:			

Prism	Culindor	Pyramid	Cone	Sphere
V = BH	$V = \pi r^2 H$	$V = \frac{BH}{3}$	$V = \frac{\pi r^2 H}{3}$	$V = \frac{4\pi r^3}{3}$

1. DE = 150	$2. m \angle L = 119^{\circ}$	3. $x = 54^{\circ}$	4. $x = 64^{\circ}$	5. x = 12
6. <i>V</i> = 1280	7. b = 5 cm	$8. V = 12\pi \ cm^3$	9. $V = 85.3\pi$	10. <i>V</i> = 384

Unit C Due	Name: Per: ctice Test B
1. Determine $m \angle C$. D D (8x + 63) C (8x + 63) C (5x) B	2. Determine the length of side <i>KL</i> on the parallelogram. $ \frac{K + 10x + 8}{4x + 44} L $ $ H + \frac{10x + 8}{4x + 44} M $
Answer:	Answer:
3. Determine the value of <i>x</i> . 70° x°	4. Determine the value of <i>x</i> . x° 40°
Answer:	Answer:
5. Determine the value of <i>x</i> , given that \overline{GH} is tangent to $\odot K$ at <i>G</i> . <i>H K K K K K K K K K K</i>	 6. Determine the volume of the cone. Leave your answer in terms of pi. 8 10 6
Answer:	Answer:
7. A cylinder has a volume of 245π <i>in</i> . Determine the length of the radius, if the height of the cylinder is 5 <i>in</i> .	8. Determine the volume of a cone that has a radius of 7 in, a height of 24 in and a slant height of 25 in. Write your answer in terms of pi.
Answer:	Answer:
9. Determine the volume of the given sphere in terms of pi. 10	10. If the figure below were dilated by a scale factor of $k = 4$, what would be the volume of the dilated figure? 7 6
Answer:	Answer:

Dirigue	Cylinder	Pyramid	Cone	Sphere
Prism V = BH	$V = \pi r^2 H$	$V = \frac{BH}{M}$	$V = \frac{\pi r^2 H}{\pi r^2 H}$	$V = \frac{4\pi r^3}{4\pi r^3}$
$V = D\Pi$	$V = \pi V \Pi$	v — 3	$V = \frac{1}{3}$	$V = \frac{1}{3}$

$1. m \angle C = 135^{\circ}$	2. $KL = 68$	3. $x = 70^{\circ}$	4. $x = 80^{\circ}$	5. <i>x</i> = 15
$6.V = 96\pi$	7. $r = 7$ in	8. $V = 392\pi i n^3$	9. $V = 1333.3\pi$	10.V = 21504