

Ch. 12 Worksheet Homework

1. A right prism with equilateral triangles as bases, the sides of the triangle are 8 cm. The height of the prism is 10. Find the LA, TA and V.
2. A right prism with triangles as bases, the sides of the triangles measure 9,12,15. The height of the prism is 10. Find the LA, TA, and V.
3. A right prism with Isosceles triangles as bases. The lengths of the sides of the triangle are 13,13,10. The height of the prism is 7. Find the LA, TA and V.
4. A right prism with Isosceles trapezoids as bases. The bases of the trapezoid are 10 and 4 and has legs of 5. The height of the prism is 20. Find the LA, TA, and V.
5. A right prism with rhombus' as bases. The Diagonals of the rhombus are 6 and 8. The height of the prism is 9. Find the LA,TA and V.
6. A right prism with regular hexagons as bases. The length of the sides of the hexagon are 8 and the height of the prism is 12. Find the LA, TA and V.

Answers:

	LA	TA	V
1.	240	$240 + 32\sqrt{3}$	$160\sqrt{3}$
2.	360	468	540
3.	252	372	420
4.	480	536	560
5.	180	228	216
6.	576	$576 + 192\sqrt{3}$	$1152\sqrt{3}$