Name: _____ Date: _____ Row: _____ Period: _____ Assignment #: _____

Practice 31
Supplementary Practice

Lessons 8-1, 8-2

Simplify.

1. $5\sqrt{81}$ = _____ **2.** $\sqrt{\frac{25}{36}}$ = _____ **3.** $\sqrt{98}$ = _____

4. $2\sqrt{32}$ = _____ **5.** $\sqrt{\frac{3}{5}}$ = _____ **6.** $\frac{2}{\sqrt{10}}$ = _____

7. $(\sqrt{3})^2$ = _____ **8.** $(2\sqrt{5})^2$ = _____ **9.** $\left(\frac{\sqrt{3}}{2}\right)^2$ = _____

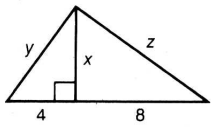
Find the geometric mean between the two numbers.

10. 2 and 8 _____ **11.** 6 and 24 _____

12. 3 and 13 _____ **13.** 5 and 8 _____

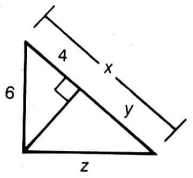
Each diagram shows a right triangle with the altitude drawn to the hypotenuse. Find the values of x, y, and z.

14.



x = _____, y = _____, z = _____

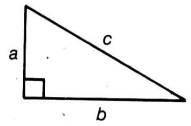
15.



x = _____, y = _____, z = _____

Complete the table.

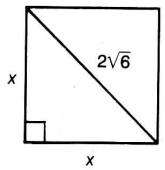
	16.	**17.**	**18.**	**19.**	**20.**	**21.**	**22.**
a	6	8		5	$5x$	$\sqrt{5}$	$2\sqrt{3}$
b	8		24		$12x$		
c		17	25	10		7	8



Exs. 16–22

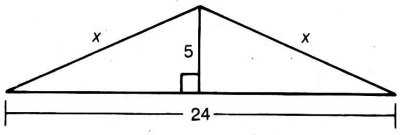
Find the value of x.

23.



x = _____

24.



x = _____

1)	2)
3)	4)
5)	6)
7)	8)
9)	10)
11)	12)
13)	
16)	17)
18)	19)
20)	21)
22)	