

Chapter 8 Review

Homework Answers

Pg 452 - #1-4, 6, 8-10

Pg 461 - #10-13, 16-21, 27-32

Pg 464 - #1-10, 12-13, 19-20, 23-24

Pg 452

1. $\triangle ABC \sim \triangle XYZ$ AA~
2. $\triangle WST \sim \triangle HJG$ SAS~
3. $x = \frac{3\sqrt{13}}{2}; w = 4.5$
4. 12
6. 7.5
8. 3.6
9. 17.5
10. 77

Pg 461

10. True; use cross product
11. True; cross product = orig proportion
12. False; cross product \neq orig proportion
13. True; cross product = orig proportion
16. 2 : 3
17. 2.5 : 1 or 5 : 2
18. 9
19. $x = 12; y = 15$
20. $\triangle XYZ \sim \triangle JKL$ SAS~
21. Not ~; corr sides not proportional
27. 7.5
28. 5.5
29. 37.5
30. 4 : 9
31. 9 : 4
32. 1 : 4

Pg 464

1. 16
2. 4.2
3. 2
4. $x = 42; y = 138; z = 9$
5. 4
6. $x = 63; y = 8$ (y is the length of the vertical leg of the bigger right triangle)
7. $\triangle PRQ \sim \triangle TWV$ SSS~
8. No; corr sides not in proportion
9. $\triangle ABC \sim \triangle FDE$ AA~
10. $\frac{AD}{DC} = \frac{AB}{BC}$
12. 6 m
13. 13.5 cm
19. 10
20. $5\frac{5}{11}$
23. 49 : 64
24. 9 : 4