

Lesson 8.2

Homework Answers

Pg 425 - #1-16, 21-28, 31-39, 53-66

1. $\angle JHY$	32. $x = 60; y = 25$
2. $\angle R$	33. 2.6 cm
3. $\angle JXY$	34. 3:4
4. HY	35. 3:1
5. JT	36. 2:1
6. HY	37. 1:2
7. no; $\frac{20}{30} \neq \frac{36}{52}$	38. 4:3
8. yes; $QRST \sim XWZY; \frac{3}{4}$	39. 2:3
9. yes; $KLMJ \sim PQNO; \frac{3}{5}$	53. D
10. yes; $ABCD \sim FGHE; \frac{4}{5}$	54. C
11. No; corr. \angle 's are not \cong .	55. A
12. yes; $\triangle ABC \sim \triangle FED; \frac{7}{5}$	56. a) 12 cm b) $m\angle KLM = 38$
13. $x = 4; y = 3$	57. $7y$
14. $x = 20; y = 17.5; z = 7.5$	58. $\frac{7}{9}$
15. $x = 16; y = 4.5; z = 7.5$	59. $\frac{y+9}{9}$
16. $x = 6; y = 8; z = 10$	60. Yes; the diagonals bisect ea other
21. 2:3	61. No; only 1 pair of \parallel sides
22. 3:2	62. Yes; both pairs of sides are \parallel
23. 50	63. $\triangle CEA, \triangle FED, \triangle BCD$
24. 50	64. $\overline{BD}, \overline{FA}$
25. 70	65. 8
26. $\frac{2}{3}$	66. 69
27. 7.5 m	
28. 5.6 m	
31. 20 ft	