

Exercise Set 11.5

Vocabulary Review 1. known 2. unknown 3. variable

4. equation 5. sentence 6. reread

Problems 1. $x + 3$ 3. $2x + 1$ 5. $5x - 6$ 7. $3(x + 1)$

9. $5(3x + 4)$ 11. The number is 2. 13. The number is -2 .

15. The number is 3. 17. The number is 5. 19. The number is -2 .

21. The length is 10 m and the width is 5 m.

23. The length of one side is 8 cm.

25. The measures of the angles are 45° , 45° , and 90° .

27. The angles are 30° , 60° , and 90° .

29. Patrick is 33 years old, and Pat is 53 years old.

31. Sue is 35 years old, and Dale is 39 years old. 33. 87 mi

35. 147 mi 37. 8 nickels, 18 dimes 39. 16 dimes, 32 quarters

41. $x = 8, y = 6, z = 9$ 43. 39 hours 45. \$54 47. Yes

49. 35 51. 65 53. 2 55. 14 57. $-\frac{2}{3}$

Find the Mistake 1. $x + 7x = 16$ 2. $x + x + x = 18$ or $3x = 18$

3. $(x + 16) + (x + 10) = 56$ or $2x + 26 = 56$

4. $8(3x) + 12x = 180$ or $24x + 12x = 180$ or $36x = 180$ or $x = 5$

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