

# Chapter 1 Answers

## Practice 1-1

1.  $7 + x$  2.  $3p$  3.  $10 - w$  4.  $7 - n$   
 5.  $2g$  6.  $m + 3$  7. 8 divided by  $a$  8. 10 less than  $x$   
 9. 13 more than  $x$  10. 2 more than the product of  $a$  and  $b$   
 11.  $8 - n$  12.  $4 + n$  13.  $2a$  14.  $3 + n$  15.  $10 + \frac{a}{13}$   
 16.  $n - 12$  17.  $c = 24.95t$  18.  $g = 30r$  19.  $m = 0.10d$   
 20.  $n = 48 - g$  21.  $c = 8p$  22.  $c = 32.95p$   
 23–28. Choice of variables may vary.  
 $t$  = number of tickets,  $c$  = total cost;  
 $h$  = number of hours,  $d$  = distance;  
 $h$  = number of hours,  $p$  = total pay;  
 $c$  = change,  $a$  = total cost;  
 $d$  = number of days,  $l$  = length;  
 $r$  = miles traveled,  $t$  = miles remaining  
 23.  $c = 3.50r$  24.  $d = 55h$  25.  $p = 5h$  26.  $a = 10 - c$   
 27.  $l = 0.45d$  28.  $r = 500 - t$

## Practice 1-2

1. 52 2. 2 3. 38 4. 4 5. 18.9 6. 87 7. 25 8. 7 9. 2  
 10. 1 11. 9 12. 30.4 13. 19 14. 5 15. 2 16. 6 17. 26  
 18. 29 19. 31 20. 88 21. 14.18 22. 85 23. 28 24. 12  
 25. 26 26. 5 27. 55 28. 56 29. 72 30. 60 31. 40 32. 2  
 33. 11 34. 4 35. 131 36. 141 37. 33 38. 16 39. 22  
 40. 12 41. 2 42. 1 43. 56 44. \$33.95 45. \$63.34 46. 24  
 47. 2.25 48. 0 49. 99 50. 5 51. 6

## Practice 1-3

1. rational, real 2. rational, real 3. natural, whole, integers, rational, real 4. irrational, real 5. irrational, real  
 6. integers, rational, real 7. rational, real 8. natural, whole, integers, rational, real 9. true 10. false;  $-2$  11. true  
 12. false;  $7 \times 2 = 14$  13.  $>$  14.  $<$  15.  $<$  16.  $=$  17.  $>$   
 18.  $<$  19.  $-\frac{8}{9}$ ,  $-\frac{22}{25}$ ,  $-\frac{7}{8}$  20.  $-3\frac{1}{2}$ ,  $-3.45$ ,  $-3\frac{4}{9}$   
 21.  $-\frac{1}{3}$ ,  $-\frac{1}{4}$ ,  $-\frac{1}{2}$  22.  $-1\frac{7}{9}$ ,  $-1\frac{3}{4}$ ,  $-1.7$  23.  $-\frac{7}{8}$ ,  $-\frac{3}{4}$ ,  $-\frac{2}{3}$   
 24.  $2\frac{4}{8}$ ,  $2.7$ ,  $2\frac{3}{4}$  25. whole 26. rational 27. whole  
 28. irrational 29.  $\frac{3}{10}$  30. 327 31. 3.46 32.  $\frac{1}{2}$   
 33. \$154.23, 0.0375,  $\frac{30}{325}$ , \$48, 0.055, and  $3\frac{1}{2}$  are rational and real; \$8000 and \$1540 are whole, integers, rational, and real.

## Practice 1-4

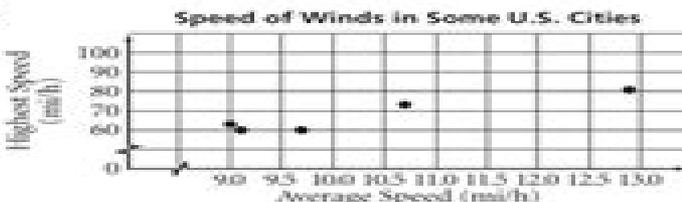
1.  $p = 9t$  2.  $c = 13r$  3.  $m = 5a + 20$   
 4.  $c = 2.50w + 7.50$  5. number of hours; amount earned  
 6. number of people; cost 7. number of minutes; volume  
 8. price; number of people 9. 96; 120;  $b = 24c$   
 10. 5.90; \$1.00;  $c = 0.10m + 0.50$

## Practice 1-5

1.



2.



3. positive correlation 4. negative correlation  
 5. no correlation 6. no correlation 7. positive correlation  
 8. no correlation; a person's age is not related to the number of pets he/she may have. 9. negative correlation; the more times you brush, the fewer the cavities you are likely to have.  
 10. positive correlation; the more rainy days, the more umbrellas are likely to be sold. 11a. Each point represents one infant's age and weight. 11b. There will be points with the same  $y$ -coordinate. 11c. The points will have the same  $x$ -coordinate. 11d. Yes, there is a positive correlation. Weight increases with age.

## Practice 1-6

1. 2.5; 2; 1; median 2. \$120.50; \$123; no mode; mean  
 3. \$31.16; \$31.25; no mode; median 4. 7.11; 8; 8 and 10; median  
 5. 52.81 6. 3  
 7.  $\frac{4.8 + 1.6 + 5.2 + x}{4} = 3.7$ ; 3.2  
 8.  $\frac{40 + 98 + 94 + 102 + 21 + x}{6} = 88$ ; 173  
 9.  $\frac{100 + 172 + 85 + 92 + x}{5} = 115$ ; 126  
 10.  $\frac{25.6 + 19.3 + 19 + x}{4} = 24$ ; 32.1  
 11. yes; The range is 0.9 fl oz. 12. no; The mean was 6.7 ppm.  
 13. 98

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**G Thomas**



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web table of contents this application note describes methods for measuring power mosfet characteristics both with a curve tracer and with special purpose test circuits measuring power mosfet characteristics topics covered 99981231160000 0800 converting the nomenclature from bipolars to mosfets p channel power mosfets

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web below is the circuit diagram the other half of the astable utilizes an npn transistor to make the circuit cheap almost any npn transistor will work in this circuit the npn transistor to the right is used as a common emitter buffer that also drives the led as it receives pulses from the mosfet drain