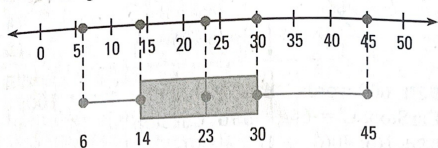


62. Length of Fish (in inches)

Stem	Leaf
0	6 9
1	3 4 4 6
2	2 3 8 8 8
3	0 5 7
4	5

Key: 1 | 4 = 14 inches

63. Length of Fish (in inches)



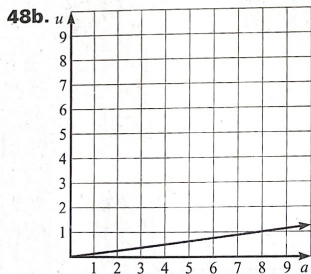
### Pre-Course Diagnostic Test

#### Multiple Choice

1. B 2. G 3. B 4. H 5. C 6. J 7. D  
 8. F 9. B 10. H 11. C 12. J 13. C  
 14. F 15. D 16. F 17. B 18. G 19. A  
 20. F 21. C 22. F 23. C 24. G 25. C  
 26. G 27. A 28. H 29. B 30. J 31. C  
 32. F 33. D 34. F 35. A 36. J 37. C  
 38. F 39. B 40. F 41. A 42. G 43. A  
 44. H 45. C 46. G

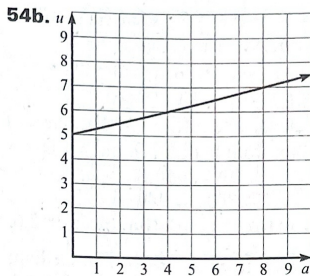
#### Short Response

47.  $16.5h + 40$  48a.  $u = \frac{1}{8}a$



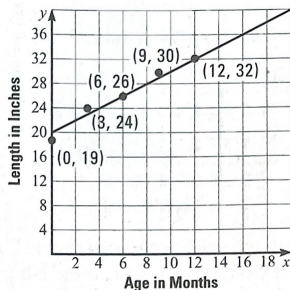
48c.  $7\frac{1}{4}$  49a.  $\frac{300}{m} + \frac{100}{m+2.5} = t$

- 49b. 6 minutes 36 seconds or 396 sec  
 50. 6186 ft 51. 240 min 52. 54%  
 53. 445 min 54a.  $l = 0.25x + 5$



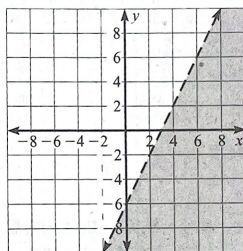
220 min

55a.  $y = x + 20$

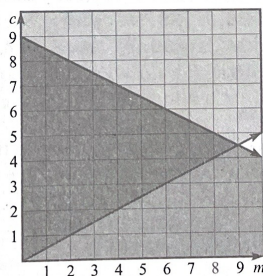


55b. 27 in.

56. Yes;  $-1 - 2(4) < -6$



57a.  $c \geq \frac{1}{2}m$ ;  $c \leq 9 - \frac{1}{2}m$



- 57b. Yes 58.  $x = -4, y = 3$  59a. \$113.17  
 59b. \$101.92 60. No; The value of the discriminant is negative. 61a. Quadratic;  $h = -4.9t^2 + 36t + 20$  61b. 7.9 sec  
 62. 0.94 miles 63a. The pitcher 63b. The runner is  $50\sqrt{2}$  feet from home. The pitcher is  $30\sqrt{2}$  feet from home.  $\frac{30\sqrt{2}}{300} < \frac{50\sqrt{2}}{440}$ .  
 64.  $b = 3$  65. Yes;  $q = \frac{4.8}{p}$  66a. mean = 2.6, median = 2, mode = 0 and 6 66b. The median; 6 of Benita's 10 shots are within 2 inches of the bull's-eye.

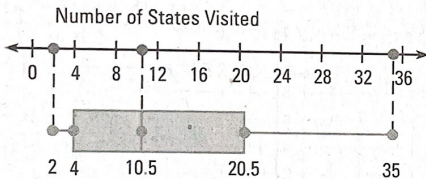
67a. 10.5;

Number of States Visited

Stem	Leaves
0	2 2 3 3 4 4 6 7 8 9
1	2 5 8
2	0 0 1 6
3	0 2 5

Key: 1 | 5 = 15 states visited

67b. 50%;



### Mid-Year Test

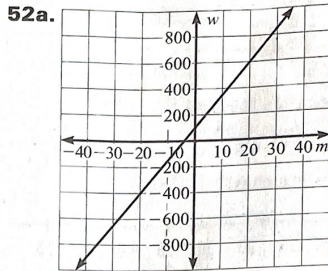
#### Multiple Choice

1. C 2. G 3. A 4. J 5. C 6. J 7. C  
 8. G 9. C 10. H 11. B 12. G 13. A  
 14. G 15. A 16. G 17. C 18. J 19. C  
 20. J 21. A 22. G 23. C 24. H 25. A  
 26. H 27. D 28. J 29. D 30. F 31. C  
 32. H 33. D 34. H 35. B 36. F 37. C  
 38. F 39. A 40. F

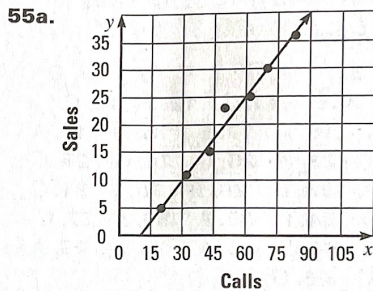
#### Short Response

- 41a. Gina 41b. The clerk does not follow the order of operations. The clerk is adding  $12 + 6.5$  before multiplying  $3 \times 12$ . 42.  $s = 2.25n$   
 43a.  $45a + 60(h - a)$  43b. 390 miles

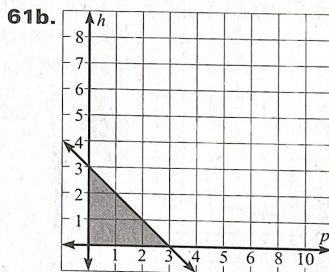
44. Rational;  $-0.15 = -\frac{3}{20}$ , which is the ratio of 2 integers 45a.  $C = 11.5y + 13.5$   
 45b. \$36.50 46. 17,700 ft 47.  $h = 20$   
 48. 1286 lbs 49a. 140 49b. 91  
 49c. 65% 50.  $A(4, -5), B(5, 3)$  51a. 8  
 51b. -37 51c.  $y = 8x - 37$



- 52b. 600 words 53a. Bob's:  $C = 40h + 100$ ; CarStop:  $C = 65h$  53b. CarStop  
 53c. No;  $40(6) + 100 < 65(6)$   
 54a.  $5x + 7y = -2$  54b.  $5x + 7y = 14$



- 55b.  $y = \frac{1}{2}x - 5$  55c. 110 calls  
 56.  $d < -4$  or  $d > 1$  57a.  $10p \leq b \leq 14p$   
 57b. 10 packages 58.  $k < 7$  59.  $z \geq -2$   
 60.  $a \leq 3$  or  $a \geq 9$  61a.  $h \leq 3 - p$



- 61c. The maximum time Gregorio has to do homework if he does not attend basketball practice. 62a.  $k = 1.25j; k + j = 1125$   
 62b. 5.6 hours 63.  $64 \text{ cm}^2$