

p 371
 Q1:
 a) $C = \text{coins}$
 coins times candies
 $7C = \text{candies}$
 She wants 56 candies
 so $7C = 56$
 She needs 8 coins
 Verify: $7(8) = 56$
 $56 = 56$
 $c = 8$

3. 48 for lawn a) $3g + 8 = 29$
 43 / garden b) $3g + 8 = 29$
 Total = 429
 $3g = 21$
 $g = 7$
 Tray weeded 7 gardens
 c) $3g + 8 = 29$
 $3(7) + 8 = 29$
 $21 + 8 = 29$
 $29 = 29$

5. Today = 6°C and 3 times yesterday
 Today = 3
 $3 = 6 + 3y$ b) $3y + 6 = 3$
 $3y = -3$
 $y = -1$
 Yesterday was -1°C.
 c) Verify $3y + 6 = 3$
 $3(-1) + 6 = 3$
 $-3 + 6 = 3$
 $3 = 3$

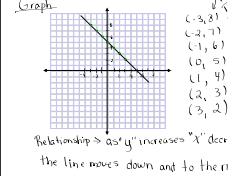
6. d) $-12 + \frac{e}{8} = -1$ Verify
 $+12 - 12 + \frac{e}{8} = -1 + 12$ $-10 + \frac{e}{8} = -1$
 $\frac{e}{8} = 11$ $-10 + \frac{88}{8} = -1$
 $\frac{e}{8} (8) = 11(8)$ $-10 + 11 = -1$
 $e = 88$

10 d) $-4(3a - 2)$
 $= -4(3a) - (-4)(2)$
 $= -12a - (-8)$
 $= -12a + 8$

15 b)

x	3	2	1	0	1	2	3
y	8	7	6	5	4	3	2

 $y = -x + 5$ (from book)
 $y(3) = 5$ $y(2) = 5$ $y(1) = 5$
 $y = 8$ $y = 7$ $y = 6$
 $y = -(-1) + 5$ $y = -(1) + 5$ $y = -(2) + 5$
 $y = 6$ $y = 4$ $y = 3$



16. 6 strands / bracelet
 $S = 6n$
 a)

n	S = 6n	Coord
1	6	(1, 6)
2	12	(2, 12)
3	18	(3, 18)
4	24	(4, 24)
5	30	(5, 30)
6	36	(6, 36)
7	42	(7, 42)

 b) She needs 42 strands.
 c) $(?, 66)$
 $S = 6n$
 $66 = 6n$
 $66 = 6n$
 $11 = n$
 So she can make 11 bracelets.

d) 20 strands / package
 18 bracelets
 $S = 6n$
 $S = 6(18)$
 $S = 108$
 $108 : 20 = 5.4$ packages
 She will need 6 packages.