

Standard 1

1. A 2. $16.\bar{6}$ or $16\frac{2}{3}$ 3. $4(q + p)$
4. B 5. 108 6. False: ex. $|-3+5| > |5|$

Standard 2

1. A 2. A 3. C 4. A 5. D
6. $4.50c \leq 75$ or $c \leq \frac{75}{4.50}$ answer: 16 charms
7. -1 8. 5 9. $x \geq \frac{4}{3}$
10. Step 2 \rightarrow should be $8x = -2$ Should have added $3x$ to both sides of equation: answer: $\frac{-1}{4}$
11. $.08x = 7.50 + .05x$ answer: 251 copies
12. $T = 300 + 15b$ answer: 14 bikes
13. $12t \geq 6.50t + 150$ answer: 28 shirts

Standard 3

1. domain: -1, 1, 3, 5 / Range: -5, -1, 3, 7 / yes 2. D
3. possible answer: Maria left school to head home. She rode at a steady rate for the first 30 minutes. Then she stopped for a 10 minute break. She then rode the last $\frac{1}{2}$ mile in 10 minutes at a slightly faster pace.

Standard 4

1. B
2. slope = -3 : x-int = 7/3 : y-int = 7
3. C
4. A
5. $y = -x + 3$
- 6 The graph must go through Points (0,-1) and (3,1)
- 7 The graph must go through Points (0,-5) and $(1\frac{2}{3}, 0)$
- 8 The graph must go through Points (0,4) and (3,3)
and the graph must be a solid line and shaded below
- 9 The graph must go through Points (0,0) and (1,-2)
and the graph must be a dotted line and shaded above
10. $610 + 2.50d = 950$ Answer: 136 DVD's
11. \$1.25 equation: $C = 8.50 + 1.25 T$
12. $y = 1/3 x - 2$ Slope = 1/3 : x-int = 6 : y-int = -2

Standard 5

1. A
2. B
3. \$19.95 per one pair of jeans
4. 75 Andre's age
5. (-3, -1)
6. Equations:
 $2A + 4C = 95$
 $3A + 7C = 155$
answer: \$12.50 : admission price
7. One graph must go through Points (2,0) and (0,-3)
and the graph must be a dotted line and shaded above
The other graph must go through Points (1,3) and (0,5)
and the graph must be a solid line and shaded below
The final answer is where the two shadings overlap.

Standard 6

1. C
2. D
3. C
4. A
5. C
6. A
7. C
8. D
9. D
10. B
11. $(2x + 1)(2x - 1)$
12. $(x - 7)(x + 4)$
13. B
14. $P = 14x + 2$
15. A

Standard 8

1. B
2. C
3. C
4. C
5. B
6. C
7. D
8. 8
9. 4.5 sec.
10. $(x + 24)(x + 32) = 1174.25$
11. 30.5×38.5
12. 138 ft.
13. $h = -16t^2 + 4t$ answer: $\frac{1}{4}$ sec.
14. The graph must be a parabola through the points $(-2, -7)$, $(-1, -6)$, $(-3, -6)$, $(0, -3)$ and $(-4, -3)$
The parabola opens upward
15. The graph must be a parabola through the points $(0, 0)$, $(2, 8)$ and $(4, 0)$
The parabola opens downward
16. D