

Answer Key

Standard 1:

1. A 2. C
3. Key points: A discussion about the cost will increase. May wish to show the new cost will be \$2937.50.
4. D 5. C 6. B 7. C 8. D 9. A 10. D
11. B 12. A 13. D

Standard 2:

1. A 2. B 3. A 4. B 5. B 6. A 7. B
8. A 9. B
10. Check drawing to see that a 90 angle was created, the sides that make the 90 angle are each 2 cm, and the hypotenuse was drawn.
11. Check drawing to see origin and axes are labeled. A is in Quadrant I, B Quadrant III, C Quadrant II, and D Quadrant IV.
12. $x = 20$ 13. Check drawing 14. Check drawing
****Please check drawings with your math teacher.*

Standard 3:

1. C 2. C 3. B 4. B 5. Check drawing
6. H1 H2 H3 H4 H5 H6 T1 T2 T3 T4 T5 T6
7. 79 8. 80 9. 80 10. 30
11. No—small number of data items and one low number may skew the measure of central tendency. The median here may be a better choice.
12. No—the vertical axis does not start at zero.
13. Key points: the shape in #1; regions representing categories may not accurately reflect the actual area amounts in #4.

Standard 4:

1. C 2. A 3. A 4. B 5. C
6. C 7. B 8. A 9. B
10. 19 cm if radius is 3 cm and using 3.14 11. 28 cm^2 if radius is 3 cm and using 3.14
12. 54.72 cm^2 13. 678.24 cm^2 14. 1356.48 cm^3
15. 24 cm^2 16. 22 cm 17. 8 cans
18. 528 inches 19. 26 cm^2

Standard 5:

1. 9:05 2. 29; adding one more than you did with the previous term.
3. $2n + 6 = 12$ 4. $2w - 3$ 5. $\frac{1}{3} y^2$ 6. $k \div 3$
7. 45 8. $22(8 + 2) = 220$ 9. Commutative Property for Multiplication
10. 15 11. $x = 32$ 12. $x = -1$ 13. $x = \frac{4}{5}$
14. $x = -3$ 15. $x > 7$ 16. $x \geq -8$ 17. $x < 5$
18. $x = 4$ 19. $12 = n \div 4$ 20. $x - 525 = 325$ where $x =$ amount before trip
21. $36x = 251.64$ where $x =$ price of each pillowcase
22. $6 > t$ 23. $x - 30 < 70$