

**Answer Key**

Standard 1:

1. D      2. C      3. B      4. C      5. D  
 6. C      7. A      8. D  
 9.

10. Discussion includes:

	Team Uniform Order			
	Sm	Med	Lg	XLg
Shirts	3	7	10	5
Shorts	7	4	2	2

1. Surface area is 9 times larger than original.  
 2. Volume is 27 times larger than original.

Standard 2:

1. B      2. C      3. C      4. C      5. A      6. B  
 7. A      8. B      9. B      10. B      11. D      12. C  
 13. B      14. B      15. D      16. B      17. A      18. D  
 19. C      20. C      21. B

Standard 3:

1. B      2. A      3. A      4. C      5. D      6. D  
 7. B      8. C      9. D      10. A      11. A  
 12. Please have a math teacher check your picture.

Standard 4:

1. B      2. C      3. A      4. C      5. A      6. C  
 7. A      8. C      9. C      10. B      11. hours

Standard 5:

1. B      2. C      3. B      4. A      5. A      6. A  
 7. B      8. A      9. B      10. Check drawing      11. Check drawing  
 12.  $80 - 2x$       13.  $r > \frac{40}{7}$       14.  $6x^3 - 2x^2 - 5x + 22$       15.  $(3x + 1)(x - 2)$   
 16.  $x = 2$       17. Check drawing      18.  $y = 3$       19.  $x < 8$   
 20. Check drawing      21.  $5 < x < 9$       22. Check drawing  
 23. (2, 1)      24. (4, 6)      25.  $x = 3$  or  $x = \frac{1}{4}$   
 26.  $x = -3$  or  $x = -\frac{1}{2}$       27.  $t = \frac{A - p}{pr}$       28. about \$0.10 per year  
 29. \$5      30. Check drawing  
 31. Positive correlation—more shots attempted the more goals scored.  
 32. 7 hours  
 33. Club 2 is cheaper if you use the court less than 7 hours. Club 1 is cheaper if you use the court over 7 hours.  
 34. 3 inches per minute

\*\*\*Please have your math teacher check your drawings for accuracy.