

## Entering Pre-Algebra-8 Summer Work Answers

1.  $-5, -4, -|-1|, 0, |-2|$     2.  $-6.7, -\frac{28}{5}, 8.2, \frac{17}{2}$

3. 7            4. 5            5. -15            6. -15

7.  $\frac{3}{10}$             8. -1.02            9.  $-2\frac{11}{20}$             10. -4.6

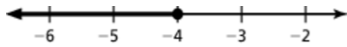
11. 23.5 points            12.  $x = -1\frac{7}{30}$

13.  $a = -3.2$             14. 8 pens

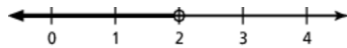
15.  $1456 \text{ ft}^2$             16.  $t - 3.2 \leq 7.5$

17.  $\frac{4}{7}m > \frac{12}{5}$             18.  $\frac{x}{4} < 12; x < \$48$

19.  $k \leq -4;$



20.  $v < 2;$



21.  $12.5x + 5 \geq 50; x \geq 3.6;$  at least 4 CDs

22. 0.25 minute, or 15 seconds

23. no            24. yes            25.  $x = 29\frac{1}{3}$

26.  $\frac{2}{3}$             27. 2            28. 42

29. no; Because the additional 15% is taken off the sale price rather than the original price, the discount is actually less than 90% off the original price.

30. \$1325.50            31. complementary

32. neither            33. right isosceles

34. acute scalene            35. 74

36. 68            37. 1 : 2

38.  $28\pi \approx 88 \text{ in.}; 196\pi \approx 615 \text{ in.}^2$

39.  $75 + \frac{25}{4}\pi \approx 94.625 \text{ ft}^2$

40. volume =  $243.75 \text{ cm}^3$ ; surface area =  $237.5 \text{ cm}^2$

41. volume =  $64 \text{ ft}^3$ ; surface area =  $144 \text{ ft}^2$

42. surface area =  $106.76 \text{ in.}^2$

43. a. *Sample answer:*  $2 \text{ ft} \times 4 \text{ ft} \times 9 \text{ ft}$ ,  
 $3 \text{ ft} \times 6 \text{ ft} \times 4 \text{ ft}$ ,  $4 \text{ ft} \times 3 \text{ ft} \times 6 \text{ ft}$

b. Check students' work. The design with the lesser surface area will be cheaper to produce because less wood is needed.

44. 98 students

45.  $\frac{2}{9}$  or about 22%

46.  $\frac{1}{36}$ , or about 3%

47.  $\frac{1}{4}$  or 25%

48. 20 tickets