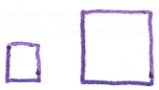
Homework Answer Key **Course 3 Lesson # 26**

1. 1271	2. 8 states	3. 150 miles
4. $3\frac{1}{24}$	5. $\frac{17}{24}$	6. $\frac{7}{48}$
7. $5\frac{1}{4}$	8. 1.75	9. 0.05
10. 0.765	11. 0.92	12. a. m^3n^2 b. $2x^2y^3$
13. 17	14. 6	15. P = 24 units A = 27 square units
16. a. $20-5p$ b. $4(2y-3)$	17. a. = b. >	18. $x = \frac{1}{2}, \frac{-1}{2}$
19. 7	20. 21,000	21. 0, 0.12, 1, 1.2, 2
22. a. Distributive Prop. b. Associative Prop. of multiplication	23. P = 60mm $A = 120mm^2$	24. m = 15
25. m = 8	26. m = 52	27. $m = \frac{1}{2}$
28. 1	29. $2^3 \cdot 5^2$	30. a. 15in. b. 20in. c. 70in.

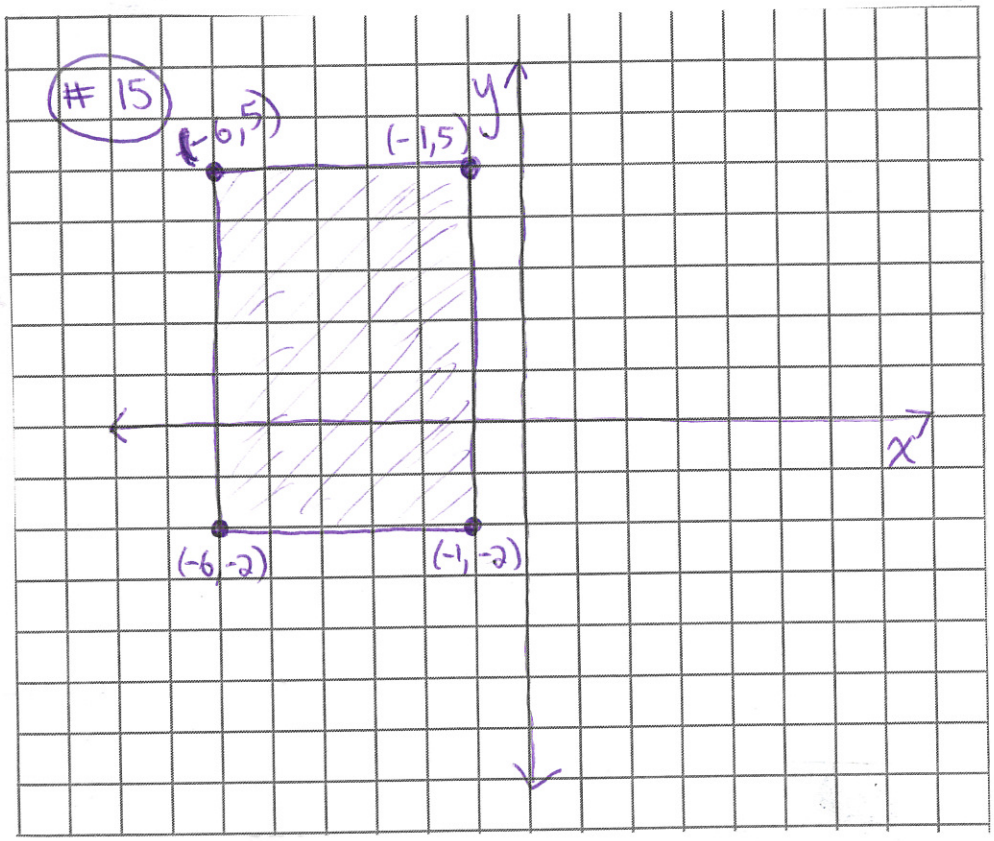
Homework Answer Key **Course 3 Lesson # 27**

1. 20 potted plants	2. $\frac{8}{15}$	3. 120 visitors
★ 4. (-1, 4) ★	5. dilation ★	6. D
★ 7. 13 ★	8. 3 ★	9. 6,020,000
10. 45.889 ★	11. $1\frac{1}{5}$ ★	12. $1\frac{7}{8}$
13. $\frac{1}{2}$	14. 2	15. 0
16. 5	17. $1\frac{3}{5}$	18. >
19. isosceles, obtuse	20. P = 120m A = 600 m^2	21. 17m
★ 22.  These are both squares, but not the same size (not congruent)	23. B. skew	24. 180°
25. 7,700,000	26. 10	27. integers
28. 12.68m	29. $2^4 \cdot 3^2$	30. a. d = 18 b. n = 9

Homework Answer Key **Course 3 Lesson # 28**

1. 3,972 feet	2. 30%	3. about 12,000 towers
4. obtuse, scalene $6m^2$	5. 76°	6. 7 kilograms
7. a. m^7 b. m^4	8. $3\frac{1}{3}$	9. $\frac{1}{2}$
10. 4	11. 0.75	12. 135°
13. 15	14. a. 4 b. 3 c. 3	15. (-6,-2) P = 24 units A = 35 square units *see back for graph
16. a. $3x+3r+15$ b. $2(2x+3y)$	17. a. 297,000 b. 4.03×10^6	18. 13
19. 1,000	20. >	21. $\frac{2}{5}$
22. a. Commutative Prop. of multiplication b. Identity Property of multiplication	23. 60°	24. $h=40$
25. $f=\frac{1}{10}$	26. $x=4$	27. $x=20$
28. a. 17 b. 40	29. -2, 0, 0.02, 0.2, 2	30. $\sqrt{2}$ cm

Problem #15



Homework Answer Key **Course 3 Lesson # 29**

1. 200 bags	**2.** $\frac{1}{12}$	**3.** $540
4. B. right	**5.** 75%	**6.** 125
7. 89	**8.** x^3w^2	**9.** x^2y^2
10. 13	**11.** $1\frac{7}{18}$	**12.** 7.1
13. 1.111	**14.** $120	**15.** 2.604
16. 7.5 square units (or $7\frac{1}{2}$ square units)	**17.** C. $53\times100 + 53\times20$	**18.** These 2 products are easy to compute: $(53\times100) = 5300$ $(53\times20) = 1060$ Add them to get the answer (6360).
19. $-1, 0, \frac{3}{7}, 0.5, \frac{2}{3}$	**20.** 8 teaspoons of pepper	**21.** a. $n=12$ b. $d=-32$
22. 10 cars	**23.** 42 mph	**24.** $6x-3y$
25. $9(2x-3)$	**26.** a. 2.52×10^5 miles b. $\frac{1}{4}$ of a million miles	**27.** isosceles, right triangle
28. $28	**29.** $a = 40°$ $b = 50°$	**30.** NO, the hypotenuse would have to be 20ft, making a perimeter 48ft. which 3feet too much. (the roll is not long enough)

Homework Answer Key **Course 3 Lesson # 30**

1. 5 boys; $\frac{1}{4}$ of the students	2. About 440 ft^2	3. $5\frac{1}{4}$ in.
4. 10 mm^2	5. obtuse, isosceles 127°	6. $20
7. $\frac{1}{4}$	8. $\frac{7}{12}$	9. $\frac{3}{8}$
10. 22.1	11. 40	12. 0.56
13. a. $0.\overline{2}$; $22\frac{2}{9}\%$ or $22.\overline{2}\%$ b. The fraction	14. 0.7; $\frac{7}{10}$	15. A = 70 square units P = 34 units (*graph on back)
16. a. $5x+5y+5z$ b. $w(x+y)$	17. x^6	18. 2.8×10^{-7}
19. $2^6 \cdot 5^6$	20. <	21. a. Commutative Prop. of multiplication b. Associative Prop. of Addition
22. 0, 0.3, 35%, $\frac{2}{5}$, 1	23. Scalene acute	24. m = 1
25. $r = \frac{1}{5}$	26. $h = \frac{1}{2}$	27. $t = 17$
28. 1	29. E = 98	30. $\sqrt{5}$ units

#15