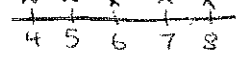
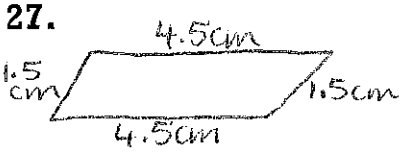
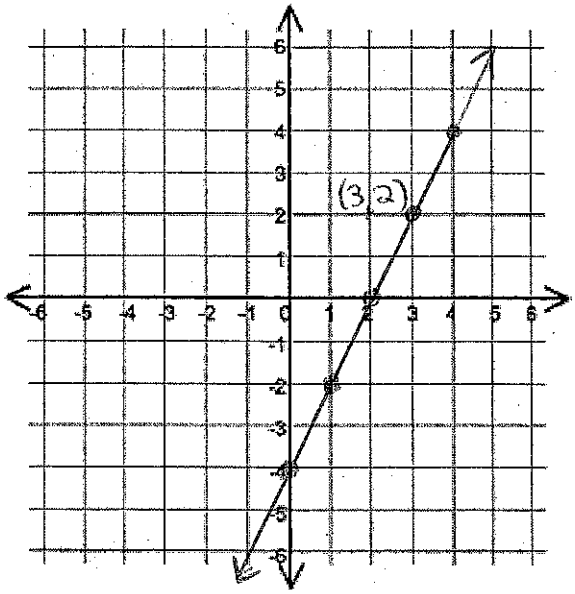
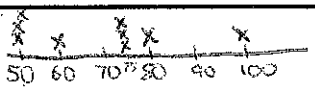
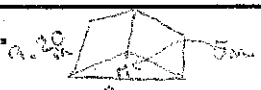
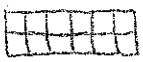
Homework Answer Key **Course 3 Lesson # 56**

1. 6300 sq. km	**2.** $86	**3.** a.  b. range: 4cm mean: 6cm median: 6cm mode: 6cm
4. $m\angle x = 120°$	**5.** yes.	**6.** a. 3.14159 units^2 b. 6.28318 units
7. a. 2.5cm/yr. b. 25km	**8.** $1600m \cdot \frac{1km}{1000m} = 1.6km$	**9.** $x = 25$
10. $x = 1.5$	**11.** $x = 3$	**12.** $m = 6$
13. a. 0.4, 40% b. 40% of the students had visited the national park.	**14.** a. $2x(x+7)$ b. $5(3x-4)$	**15.** $\frac{1}{4}$
16.  cylinder	**17.** $-7x-1$	**18.** 80
19. -60	**20.** $\frac{w}{r}$	**21.** $\frac{3}{4}$
22. $x = 12$	**23.** 3×10^3	**24.** 6
25. $\frac{a}{c}$	**26.** 3%, 0.3, 0.33, $\frac{1}{3}$	**27.** 
28. $m\angle X = 40°$ $m\angle Y = 50°$ $m\angle Z = 130°$	**29.** 1	**30.** A. because all the points are in a line and the line appears to intersect with the origin.

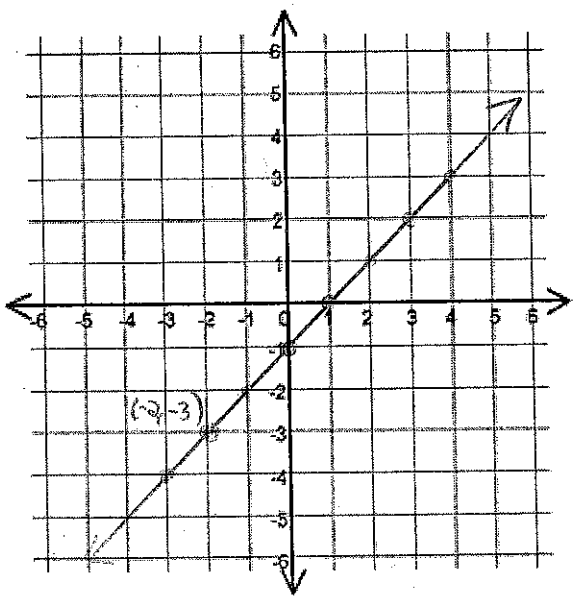
(#5) $y = 2x - 4$ (3,2)



Homework Answer Key **Course 3 Lesson # 57**

1. 27,600 weddings	**2.** 219 days	**3.** 12 problems
4. a.  b. range $50, mean $68; median $75 mode $50 and $75 c. Most common amnts. donated were $50 and $75	**5.** $x = 9$	**6.** $m\angle x = 30°$
7. {AA, AA, AAAA, BB, BC, CB, AB, AB, BA, BA, CA, CA, CC} a. b. 3/4	**8.** yes.	**9.** $m = 2$
10. $x = 9$	**11.** $x = \frac{1}{4}$	**12.** $p = -1$
13. 19m	**14.** $14m^2$	**15.** $x^2 + 4x + 4$
16. $\frac{1}{4} = \frac{1}{4}$	**17.** a. 325 mi b. 65 mph	**18.** 1760 yd.
19. a.  b. 	**20.** a. $1200 in^3$ b. $1120 in^2$	**21.** $\frac{r^2}{m}$
22. $\frac{2}{3} = \frac{2}{3}$	**23.** a. $91\frac{2}{3}\%$ b. $0.91\overline{6}$	**24.** B. Step function
25. a. {AA, AB, AC, BA, BB, BC, CA, CB, CC} b. 5/9 c. 4/9	**26.** -2	**27.** a. $y = x + 2$ b. $y = x - 2$
28. $y = \frac{1}{2}x - 1$	**29.** $x = 2, -2$	**30.** a. A.  b. B 

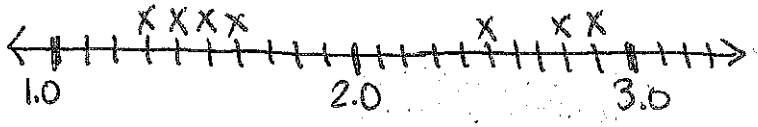
#8 $y = x - 1$ $(-2, -3)$



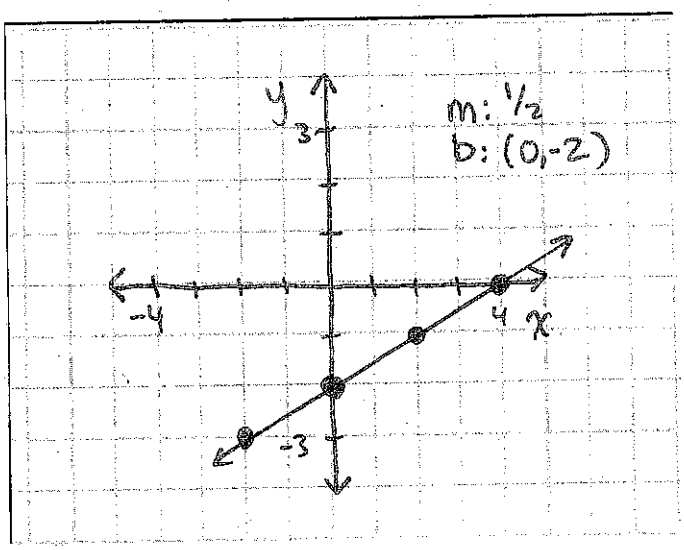
Homework Answer Key **Course 3 Lesson # 58**

1. 2×10^{23} hydrogen atoms	**2.** 18,000 favored	**3.** \$11.30
4. a. see back b. mean: 2.0 median: 1.6 mode: none range: 1.6 c. mean	**5.** a. {15-27-18, 15-18-27, 18-15-27, 18-27-15, 27-15-18, 27-18-15} b. 1/6	**6.** $x = 3.5$
7. $m\angle x = 110°$	**8.** (see graph on back)	**9.** 8,000 miles Circumference is about 3 times the diameter. So divide 25,000 by 3 and round down.
10. $m = 2$	**11.** $x = -9$	**12.** $x = \frac{1}{2}$
13. $y = 3$	**14.** The basketball will fit → its circumference is 30in. and the hoop's circumference is about 54in.	**15.** a. $42 cm^2$ b. 26 cm
16. $5\frac{5}{8}$ inches	**17.** $2.5 ft. \left(\frac{12 IN}{1 ft}\right) = 30 in$	**18.** $\frac{4}{25}$
19. r	**20.** $\frac{1}{5}$	**21.** $x^2 + 3x + 2$
22. a. 0.55; $\frac{11}{20}$ b. \$660	**23.** 0.143	**24.** -9
25. a. Corresponding $\angle$s are congruent b. $x = 24$ c. $y = 26$	**26.** 10^{-5} kg	**27.** 10%
28. about 28.26 ft^2	**29.** 1,000mph	**30.** (see graph paper on back) A'(-3,2) B'(7,2) C'(7,-5) D'(-3,-5)

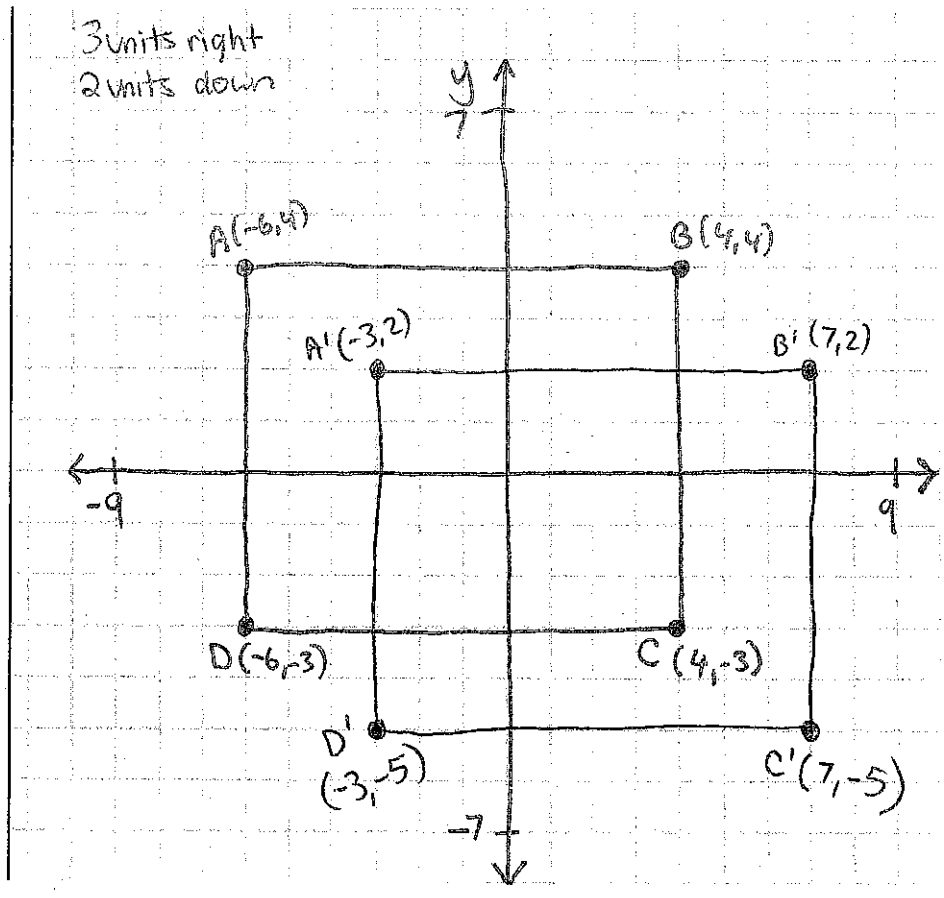
4a.



8. $y = \frac{1}{2}x - 2$



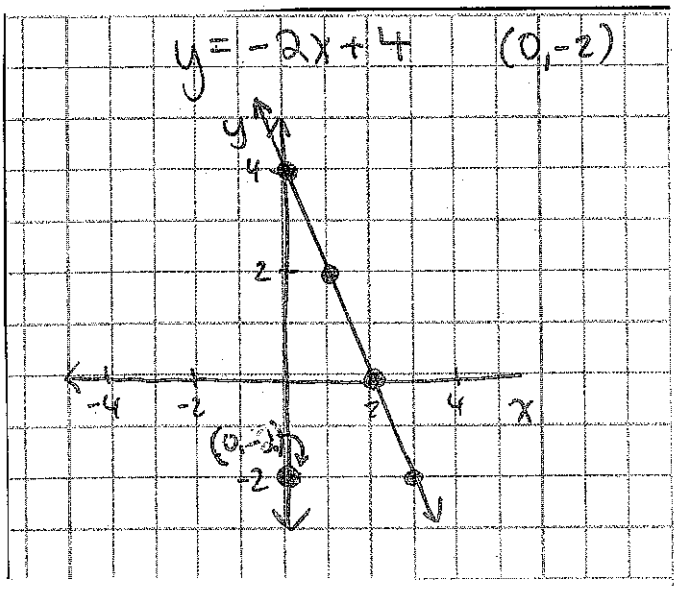
30.



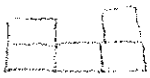
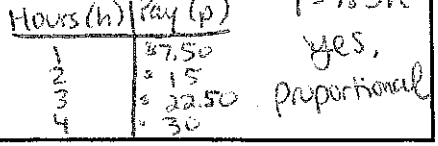
Homework Answer Key **Course 3 Lesson # 59**

1. 18×10^{23} atoms	**2.** a. mean: 30.4 ft. median: 30 ft mode: none range: 5 ft b. range	**3.** 40%
4. $\frac{2}{5}$	**5.** scale factor: 1/2 $x = 2$	**6.** $x = 135°$
7. (see graph on back.) NO.	**8.** $x = 9$	**9.** $x = 14$
10. $x = 2.1$	**11.** $x = \frac{2}{3}$	**12.** a. 169π units^2 b. 26π units
13. a. Area is less than area of rectangle b. Perimeter is greater than perimeter of rectangle.	**14.** 50 mph	**15.** $3.5 \text{ min}\left(\frac{60 \text{ sec}}{1 \text{ min}}\right) = 210$ sec.
16. $6\frac{3}{4}$ ft. 6.75 ft.	**17.** $\frac{1}{36}$	**18.** h^2p
19. $\frac{2}{9}$	**20.** 0.28	**21.** a. 95%, $\frac{19}{20}$ b. $\frac{9}{10}$, 0.95, $\frac{39}{40}$
22. a. $\{W, W_2, W, Y, W_2 Y\}$ b. 2/3	**23.** 48 mph	**24.** \$22.11
25. 92%	**26.** $x^2 - 1$	**27.** $V = 264 \text{ in}^3$ $S.A = 290 \text{ in}^2$
28. 6.25×10^{-11}	**29.** $(1.3 \times 10^{-8})(3.0 \times 10^{4}) =$ $3.9 \times 10^{-4} = 0.00039$ lbs.	**30.** D.

#7



Homework Answer Key **Course 3 Lesson # 60**

1. $14.28	**2.** 2.5×10^{-5} cm	**3.** 40 sq. units
4. $10; about 16%	**5.** B. $\frac{1}{10} \times \frac{1}{10}$	**6.** $15.00
7. -5	**8.** 2	**9.** 3.2×10^9
10. 36	**11.** $5^3 = 125$	**12.** $x = 15$
13. $k = -5$	**14.** $x = -14$	**15.** $t = 12$
16. $m = 1.5$	**17.** $b = 4$	**18.** $A = 24$ units^2 Area of dilation is 96 units^2
19. $\approx 6,702$ km	**20.** $25m + 75 = 125$, $-75 \quad -75$, $\frac{25m}{25} = \frac{50}{25}$, $m = 2$ months	**21.** C. 
22. $m\angle C = 52°$	**23.** 29 inches	**24.** $\frac{8}{1.5} = \frac{36}{9}$, $g = \$6.75$
25. 300 students	**26.** Yes, the diagonal measurement is 26 inches	**27.** 36 whole wheat
28. 18 minutes	**29.** surface area = 864 ft^2 Need 11 rails	**30.**  $p = 7.5h$ yes, proportional

Hours (h)	Pay (p)
1	$7.50
2	$15
3	$22.50
4	$30