

Homework Answer Key

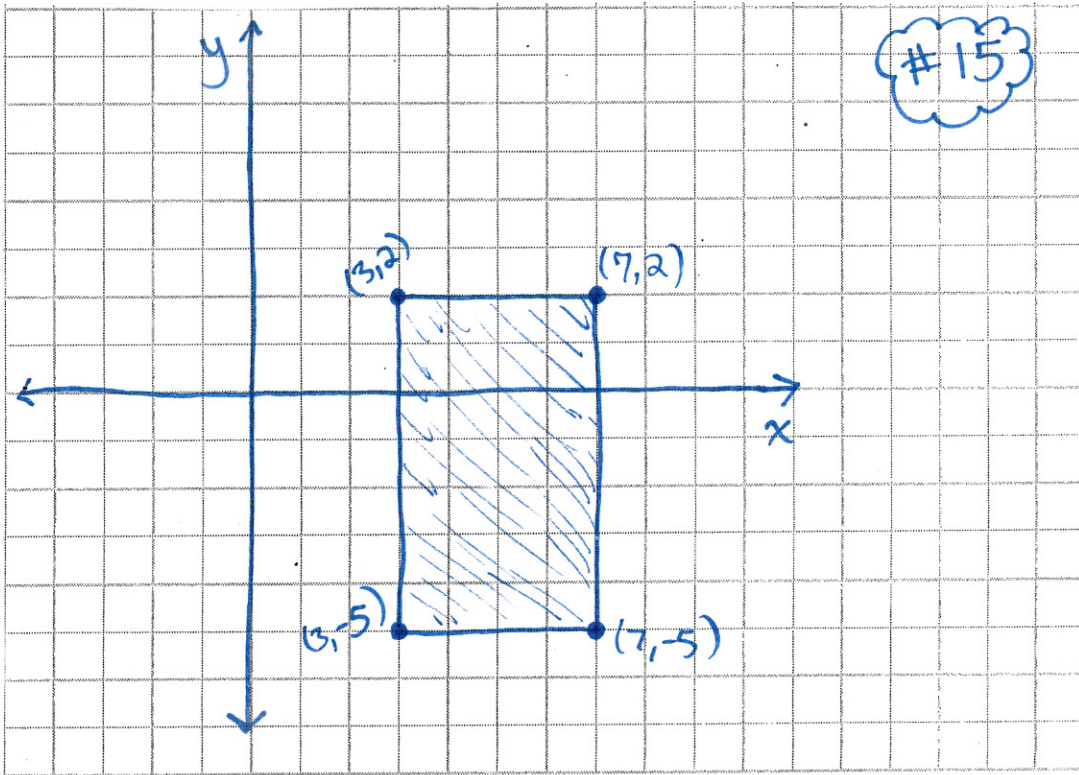
1. $\$24.39$ ☆	2. $10\frac{5}{8}$ pounds ☆	3. 99.03 percent (99.03%)
☆ 4. dilation; scale factor: 2 ☆	5. 1.25×10^{13}	6. $11:2$ or $\frac{11}{2}$ or 11 to 2
7. 8	8. $2\frac{1}{3}$	9. $\frac{1}{4}$
10. $\frac{5}{8}$	11. $7 > 5$	12. a. $4x + 8y + 12$ b. $3(2x + y)$
13. $2 \times (5 \times 27)$ given ☆ $(2 \times 5) \times 27$ Associative Prop. of Multiplication (270)	14. B. a positive integer	15. -1
☆ 16. $W = 49$	17. acute, scalene 9cm^2	18. $3x^2 + 5x - 1$
19. -32	20. x^4	21. $2\frac{7}{8}$
22. 2.33 ☆	23. a. -15 b. -15	24. $h = 5$ hours
☆ 25. $0.\overline{27}$	26. $\frac{3 \cdot 3 \cdot 3}{3 \cdot 3 \cdot 5} = \left(\frac{3}{5}\right)$ ☆	27. 492 words
28. a. Zero Property of multiplication ☆ b. Identity Property of multiplication	29. a. 5 b. 15	30. $\$5.58$

Homework Answer Key

Course 3 Lesson # 32

1. \$3.03	2. 48 days	3. 147 seconds or 2 min. 27 seconds
★ 4. a. $\frac{3}{5}$ or 0.6 or 60% b. $\frac{1}{2}$ or 0.5 or 50%	5. $P(\text{yellow}) = \frac{1}{9}$ $P(\text{not yellow}) = \frac{8}{9}$	★ 6. a. 24m^2 b. 24m
7. 2	8. $-\frac{1}{15}$	9. $\frac{1}{3}$
10. 1.74	11. 44	12. a. $5 < 7$ b. $4 < 6$
★ 13. $0.\overline{5}$ $55\frac{5}{9}\%$ or $55.\overline{5}\%$	★ 14. a. 0.6 ; $\frac{3}{5}$ b. $\frac{3}{5}$ because 15 is easily divisible by the denominator 5.	15. (3, 2) $A = 28 \text{ units}^2$ $P = 22 \text{ units}$ ★ graph on back
16. a. $3x + 36$ b. $x(x + 6)$	★ 17. 60,200,000,000	★ 18. a. m^{12} b. r^4
19. a. b.	20. the whole #'s $\{0, 1, 2, 3, \dots\}$	21. $23 + (7 + 18)$ given $(23 + 7) + 18$ Associative Prop. of Addition. 48
22. 2100 $210 \uparrow 10$ $21 \uparrow 10 \uparrow 25$ $3 \uparrow 7 \uparrow 25$ $2^3 \cdot 3 \cdot 5^2 \cdot 7$	23. $\{AA, AB, AC, BA, BB, BC, CA, CB, CC\}$ $P(A) = \frac{5}{9}$	24. Jon will win more often. Probability of Jon winning is $\frac{5}{9}$, probability of meg winning is $\frac{3}{9}$.
25. $-5.4, -3.2, 0, 2.3, 4.5$	26. reflection	27. $x = 20$
28. 3	★ 29. $E = 9$	★ 30. a. 70° b. 70° c. 110°

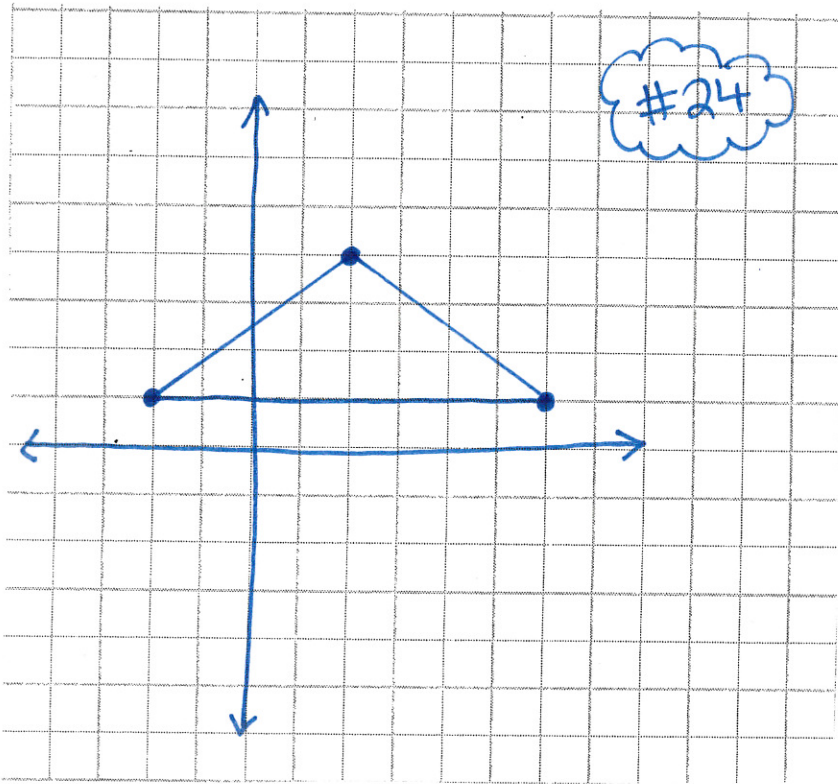
#15



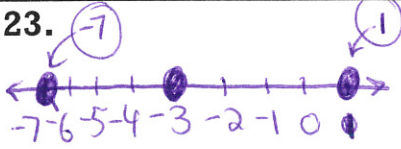
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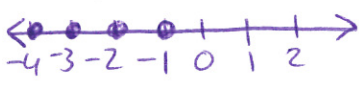
★ 1. B. 12°F	★ 2. 2.5×10^7	3. \$83.34
4. 8.25% \$15.59	5. trapezoid or isosceles trapezoid	★ 6. -42m
★ 7. a. 9 b. 1	★ 8. a. -11 b. -20	★ 9. $a^2 + 4a$
★ 10. $0.\bar{7}$ $77\frac{7}{9}\%$ or $77.\bar{7}\%$	11. 36 pieces	12. 20 in.
13. $\frac{1}{12}$	14. $x = 6$	★ 15. Estimate: 9 Actual: 8.7
16. a. -22 c. 15 b. 12 d. $\frac{1}{2}$ or 0.5	17. a. 0.2; $\frac{1}{5}$ b. Fraction $\frac{45}{100}$ is easily divisible by 5.	★ 18. 33
19. 4.345	20. 2.84	21. 20
★ 22. $8^4 = 4096 \text{ fl. oz.}$	23. $-1.8, -\frac{1}{10}, 0.12, \frac{1}{8}, 0.22$	★ 24. a. isosceles b. 12 units ² c. 18 units <i>graph on back</i>
25. rotation	★ 26. $\frac{1}{15}$	27. 106 slices
28. 0.9 cm	★ 29. $3\frac{3}{8}$	30. length: $5\frac{1}{2}$ in width: $4\frac{1}{4}$ in Area: $23\frac{3}{8} \text{ in}^2$

#24



Homework Answer Key

1. $\$9.00$	2. 0.52 seconds	3. $h = \text{height}$ $h = 16 \text{ inches}$
4. reflection	5. -8	6. True. a rhombus has 4 congruent sides so any square is a rectangle and also a rhombus.
7. 1	8. 19	9. 59
10. $\frac{1}{2}$	11. 6	12. -9
13. a. $\frac{1}{2}$ b. $\frac{1}{4}$ c. $\frac{3}{4}$	14. a. $-11xy + y$ b. $13b^2 + 7ac + 4$	15. 288,000 fluid ounces
16. a. 100° b. 6 in	17. $b = 7 \text{ or } -7$	18. $b = 5$
19. $b = 9$	20. $b = 6 \text{ or } -6$	21. $0.\bar{3}$ $33\frac{1}{3}\%$ or $33.\bar{3}\%$
22. Jupiter Earth Pluto Neptune	23. 	24. C. $\$161.90$
25. translation	26. $y = 35$	27. $y = 20$
28. $134 - (-129) = t$ $t = 263^\circ\text{F}$	29. 4	30. Fourth Quadrant

<p>1. Yes, it is proportional because the ratio of miles to days is constant.</p>	<p>2. $\frac{1}{2}$</p>	<p>3. 16 hours</p>
<p>4. a. 0.32 ($\frac{8}{25}$), 0.85 ($\frac{17}{20}$) b. Design B</p>	<p>5. $4x + 8$</p>	<p>6. a. 12 units b. 6 square units <i>graph on back</i></p>
<p>7. a. 24cm^2 b. 24cm</p>	<p>8. a. -18 b. 12</p>	<p>9. a. -18 b. -12</p>
<p>10. $4\frac{5}{12}$</p>	<p>11. $1\frac{1}{8}$</p>	<p>12. $\frac{1}{2}$</p>
<p>13. 125</p>	<p>14. 2</p>	<p>15. 0.04</p>
<p>16. a. 11 b. 3</p>	<p>17. a. side BE b. =</p>	<p>18. a. $\frac{2}{3}$ b. $\frac{2}{5}$ c. $\frac{3}{5}$</p>
<p>19. a. $\{H1, H2, H3, H4, H5, T1, T2, T3, T4, T5\}$ b. $\frac{1}{5}$</p>	<p>20. a. 0.125 12.5% or $12\frac{1}{2}\%$ b. Fraction is easiest to compute mentally</p>	<p>21. $x = 4, -4$</p>
<p>22. $x = 12$</p>	<p>23. $x = 5$</p>	<p>24. $x = 36$</p>
<p>25. $\frac{2}{5}$</p>	<p>26. </p>	<p>27. 9</p>
<p>28. a. 75 ft. b. 450 ft.</p>	<p>29. $4\frac{1}{4}$ in.</p>	<p>30. a. 50° b. 50° c. 80°</p>

