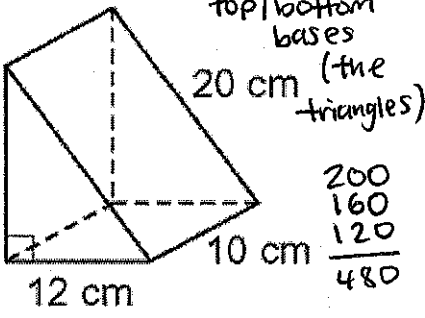
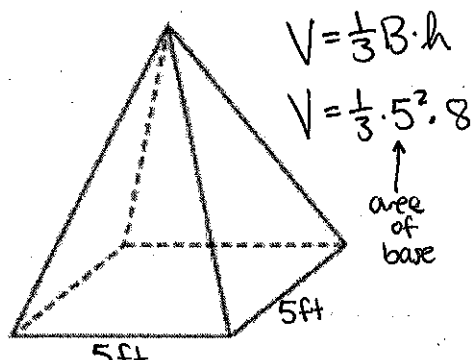
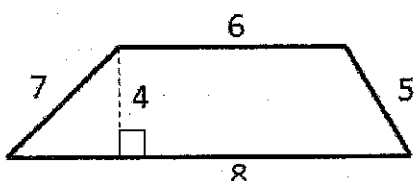
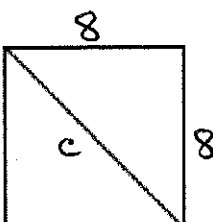
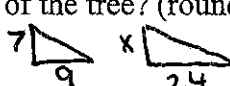


Problem	Answer	Lesson
<p>1. You are creating a scale drawing of your dream house using the scale 1 in = 5 ft. How long should you draw a wall that will be 24 feet?</p>	<p>4.8 inches</p>	<p>87: Scale Drawing Word Problems</p>
<p>2. What is the product of 4×10^8 and 6×10^3? 24×10^{11} (Write your answer in scientific notation.)</p>	<p>2.4×10^{12}</p>	<p>46: Solving Problems using Scientific Notation</p>
<p>3. What is the price of a \$32.00 item with 7.5% sales tax?</p>	<p>\$ 34.40</p>	<p>67: Percent of Change</p>
<p>4. If a coin is flipped 4 times, what is the probability of getting tails all 4 times? $\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$</p>	<p>$\frac{1}{16}$</p>	<p>68: Probability Multiplication Rule</p>
<p>5. What is the <u>lateral</u> surface area of the triangular prism? exclude the top/bottom bases (the triangles) 20 cm (the triangles) 16 cm 12 cm 10 cm $\frac{200}{160}{120}{480}$</p> 	<p>480 cm^2</p>	<p>85: Surface Area of Cylinders and Prisms</p>
<p>6. A bag of marbles contains six red, three blue, <u>five yellow</u>, and two green marble. If two marbles are drawn from the bag without replacement, what is the probability that both marbles are yellow? $\frac{5}{16} \cdot \frac{4}{15}$</p>	<p>$\frac{1}{12}$</p>	<p>83: Probability of Dependent Events</p>

<p>7. The height of this pyramid with a square base is 8 ft. What is the volume?</p>  <p>Handwritten calculations: $V = \frac{1}{3} B \cdot h$ $V = \frac{1}{3} \cdot 5^2 \cdot 8$ (Arrow points to 5^2 with label "area of base")</p>	<p>Handwritten calculation: $V = 66\frac{2}{3} \text{ ft}^3$</p>	<p>86. Volume of Pyramids and Cones</p>
<p>8. Which equation is a rule for this sequence? 0, 2, 6, 12, ...</p> <p>A. $a_n = 2n - 2$ B. $a_n = n^2 - n$ C. $a_n = n^2 - 1$ D. $a_n = n(n + 1)$</p>	<p>B.</p>	<p>73. Formulas for Sequences</p>
<p>9. Which of the following shows the intersection of sets A and B?</p> <p>Set A = {<u>1</u>, <u>3</u>, <u>5</u>, 7} Set B = {<u>1</u>, 2, <u>3</u>, 4, <u>5</u>}</p> <p>A. {1, 3} B. {1, 3, 5} C. {2, 4, 7} D. {1, 2, 3, 4, 5, 7}</p>	<p>B.</p>	<p>90. Sets</p>
<p>10. Which x and y pair of numbers is a solution to both of these equations?</p> <p>$x + y = 10$ $y - x = 2$</p> <p>A. (7, 3) $6 + 4 = 10$ B. (3, 7) $6 - 4 = 2$ C. (4, 6) D. (6, 4)</p>	<p>C.</p>	<p>89. Solving Problems with Two Unknowns by Graphing</p>

<p>11. What is the area of the trapezoid? (all dimensions are in feet)</p>  $A = \left(\frac{b_1 + b_2}{2}\right) \cdot h = \left(\frac{8+6}{2}\right) \cdot 4$	<p>28 ft²</p>	<p>75. Area of a Trapezoid</p>
<p>12. The vertices of a parallelogram ABCD are at A(0,3), B(-3,-2), C(3,-2), and D(6,3). What is the area of the parallelogram?</p> $A = b \cdot h$	<p>30 units²</p>	<p>60. Area of a Parallelogram</p>
<p>13. If parallelogram ABCD in question 12 is dilated by a scale factor of 2 from the origin, then what are the coordinates of the image of point B'?</p> $B: (-3, -2) \quad B' (-6, -4)$ <p style="margin-left: 40px;">x2 x2</p>	<p>B' (-6, -4)</p>	<p>Inv. 5. Graphing Transformations</p>
<p>14. The fraction $\frac{8}{9}$ is closest to what whole number percent?</p> $9 \overline{) 0.8} \rightarrow 88.\bar{8}\%$	<p>89%</p>	<p>63. Rational Numbers, Non-Terminating Decimals, and Percents</p>
<p>15. Simplify: $4x(7x - 3)$</p>	<p>$28x^2 - 12x$</p>	<p>21. Distributive Property and Order of Operations</p>
<p>16. The area of this square is 64 square units. What is the length of the diagonal?</p>  $\begin{aligned} 8^2 + 8^2 &= c^2 \\ 64 + 64 &= c^2 \\ 128 &= c^2 \\ \sqrt{128} &= c \\ \sqrt{64 \cdot 2} &= c \\ 8\sqrt{2} &= c \end{aligned}$	<p>$8\sqrt{2}$ units</p>	<p>74 and Inv.2. Simplifying Square Roots and Pythagorean Theorem</p>
<p>17. If $0.5 + 0.04x = 0.9$, then what does x equal?</p> $\begin{array}{r} 0.5 + 0.04x = 0.9 \\ -0.5 \quad \quad -0.5 \\ \hline 0.04x = 0.4 \end{array}$	<p>$x = 10$</p>	<p>25 and 50. Multiplying and dividing decimal numbers and solving multi-step equations</p>

<p>18. Solve for n: $(35)(0.2) = 7$</p> $\frac{1.4}{35} = \frac{0.2}{n} \quad 7 \div 1.4 = 5$	$n = 5$	<p>25 and 44. Multiplying and dividing decimal numbers and solving proportions using cross products</p>
<p>19. Simplify: $x^4 y x^0 y^{-3}$ $x^0 = 1$</p> $y^1 y^{-3} = y^{1+(-3)} = y^{-2} \quad x^4 y^{-2}$	$\frac{x^4}{y^2}$	<p>51. Negative Exponents</p>
<p>20. Simplify:</p> $4\sqrt{20} \cdot 2\sqrt{15}$ $8\sqrt{2 \cdot 2 \cdot 5} \cdot 2\sqrt{5 \cdot 3}$	$80\sqrt{3}$	<p>78. Products of Square Roots</p>
<p>21. Which of these equations indicates a proportional relationship between x and y?</p> <p>A. $y = x + 1$ <input checked="" type="radio"/> B. $y = 2x$ C. $y = x^2$ D. $y = 3x - 4$</p>	<p>B.</p>	<p>88. Review of Proportional and Non-Proportional Relationships</p> <p>*See Lesson 69: Direct Variation</p>
<p>22. A formula for the circumference of a circle is $C = \frac{2\pi r}{1}$. Solve for r.</p> $\frac{C}{2\pi} = \frac{2\pi r}{2\pi}$	$r = \frac{C}{2\pi}$	<p>79. Transforming Formulas</p>
<p>23. Solve the inequality: $7 - x < 2$</p> $7 - x < 2$ $\frac{-7}{-1} \quad \frac{-2}{-1}$ $-x < -5$ $x > 5$	$x > 5$	<p>77. Inequalities with negative coefficients</p>
<p>24. A basketball player is 7 feet tall and casts a 9-foot shadow. At the same time, a tree casts a 24-foot shadow. What is the approximate height of the tree? (round to the nearest foot)</p> $\frac{7}{9} = \frac{x}{24}$ 	$18\frac{2}{3} \text{ ft}$ $\approx 19 \text{ ft}$	<p>65. Applications using Similar Triangles</p>
<p>25. $(-6) + (-2)(5) - (-3)$ equals:</p> $-6 + (-10) + 3$ $-16 + 3$	-13	<p>33, 36, and 21. Subtracting Integers, Multiplying Integers, and Order of Operations</p>