Name: Show all work. N	Show all work. No calculators. Time:				
1. Express 3/8 + 5/6 as a fraction reduced to lowest terms.	2. Find the area of a circle of radius 2. (Area = πr^2) Express your answer in terms of π .				
3. Graph on a number line: $x \ge 0$ $\langle \frac{-5 -4 -3 -2 -1 \ 0 \ 1 \ 2 \ 3 \ 4 \ 5}{+ + + + + + + + + + + + + + + + + + + $	4. Multiply. Express the product as a fraction reduced to its lowest terms. $\frac{3}{8} \times \frac{4}{5}$				
$x \le -3$ $\langle \xrightarrow{-5 -4 -3 -2 -1 \ 0 \ 1 \ 2 \ 3 \ 4 \ 5} \\ \langle + + + + + + + + + + + + + + + \rangle$					
5. Express mathematically "five added to twice a number." Use <i>N</i> to represent the unknown number.	6. The ratio of boys to girls in the class was 4 to 6. If there were 8 boys in the class, how many girls were in the class?				

Name:	5	Show all work. N	o calculators. Page 2		
7. The original p during the Presic pants was reduc price of the pants	The original price of the pants was \$40.00; uring the Presidents' Day Sale, the price of the ants was reduced by 20%. What was the sale rice of the pants?		8. Compute: 3 ² – 2 ³ + √16		
9. Complete the table by converting the fraction to a decimal and a percent. An example is shown:		ing the fraction xample is	10. Use the information in the graph below to calculate the average monthly new car sales for the five months shown on the graph.		
			New Car Sales		
Fraction	Decimal	Percent	400 4 00		
$\frac{1}{2}$	0.50	50%	300 jo 200 100		
2 5			Jan. Feb. Mar. Apr. May Month		
$\frac{3}{8}$					

Name: Show all work. N	Show all work. No calculators. Page 3				
11. The number of red frogs exceeded the number of blue frogs by 80. The number of green frogs was 20 less than the blue frogs. If there were 120 blue frogs, what was the sum of the reds, blues, and greens?	12. Find the surface area of this right solid. Dimensions are in centimeters.				
13. Solve for x. $-\frac{1}{3}x + \frac{2}{4} = 1\frac{5}{6}$	14. If 200 is increased by 130 percent, what is the resulting number?				
15. What is the volume in cubic meters of the right solid whose base is the figure shown on the left and whose sides are 2 m tall? Dimensions are in meters. All angles are right angles.	16. Write 0.000387 in scientific notation.				

Name:	Show all work. No	o calculators.	Page 4
17. Simplify.		18. Simplify.	
$3\frac{1}{2} \times 6\frac{1}{3} \div 2\frac{1}{3} \times 1$	1 1/3	3² + 3[2³ (√49 ·	– 2 ²)(3 ² – 2 ³) –2 ²]
19. Evaluate the following if p = 16. $\sqrt[m]{p} + \frac{x}{\sqrt{p}}$, m = 4, and x = 3.	20. Solve for x. $\frac{2\frac{1}{4}}{1\frac{1}{2}}$	$=\frac{1rac{5}{6}}{x}$
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