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 Math_Questions_0017

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- a) Evaluate $\frac{3x}{8y}$ for $x = 2$ and $y = 9$ b) Write an algebraic expression:
 The product of six and some number.
- Find the reciprocal of each number:
 a) -6 b) 5.4 c) - 0.8 d) 0.25
- Compute and simplify. Do not use a calculator.
 a) $-4.213 \div (-0.2)$ b) $-3(4) - |2(-4) - 3^3|$
- Simplify:
 a) $3(5a - 6b) + b - 8$ b) $6\{3[2(x + 3) + 4] + 5(x - 4)\}$
- Solve each of the equations.
 a) $5t + 6 = 6t - 10$ b) $\frac{1}{3}x - \frac{5}{6} = \frac{1}{6}$
- Solve each of the inequalities. Write set notation for the answers.
 a) $3 - 6x > 21$ b) $5 - 3x \leq 21 + 5x$
- Pat left a 10% tip of a meal. The total cost of the meal, including the tip, was \$27.61. What was the cost of the meal before the tip was added?
- a) Solve: $m = \frac{2}{y-x}$ for x b) Simplify: $7x - 4y - 2(3x + 6y)$
- In which quadrant is the point located?
 a) (5, 3) b) (-10, 14) c) (-1, -1 0) d) (0, 0)
- Use the bar graph on page 651 of the textbook. What can be concluded about the weight of someone who has consumed $6\frac{1}{2}$ drinks without reaching a blood alcohol level of 0.10%?
- An equation and two ordered pairs are given. Show that each ordered pair is a solution or not.
 a) $y = x + 3$; (1, -2) and (4, 6) b) $3x + y = 7$; (2, 1) and (-4, -5)

25. a) Simplify: $\frac{4 - \frac{1}{y}}{2 - \frac{1}{y^2}}$ b) A sample of 240 light bulbs contained 15 defective bulbs.

How many defective bulbs would you expect in a sample of 3600 bulbs?