

Name:

Math Academy 1 Worksheet 1

1. Evaluate without a calculator, and reduce.

a) $\frac{8}{15} + \frac{5}{6}$

b) $\frac{9}{4} \div \frac{3}{8}$

c) $\frac{5}{6} \times 15$

d) $2 - \frac{5}{16}$

2. Write as a fraction, and reduce.

a) 8%

b) 0.8%

c) 0.00805%

d) 0.08% - 1

3. In two complete sentences, explain the difference between -3^2 and $(-3)^2$.

4. Let $22x = 6$. Find the value of x , and write it as stated.

a) exactly

b) simplified

c) rounded to the nearest tenth

d) rounded to the nearest thousandth

5. State the four requirements for solving equations in Math 2.

a) Do not write anything that is not...

b) Make sure the expressions...

c) Neatly write each step...

d) Make sure each symbol...

6. Solve for the exact value of x , and then round each answer to the nearest hundredth. Follow the guidelines in #5, above, on these problems and all other solving problems in this course.

a) $\frac{x}{2} + 5 = \frac{5}{7}(2x - 6)$

b) $12 = \frac{4}{9}(11x - 2)^2$