

Instructions: Show all work. Give exact answers (improper fractions) and do no round unless specifically asked to do so. If you work the problem in your calculator you can write keystrokes to show work for partial credit.

1. Estimate $14,897 \div 750$ by rounding to compatible numbers (try to keep your estimate as close as possible to the true value). Explain your reasoning.

$$\approx \frac{15000}{750} = \frac{5 \cdot 500}{3 \cdot 25} = \frac{20 \cdot 25}{25} = 20$$

2. Write the decimal $0.\overline{123}$ as a fraction in lowest terms.

$$\frac{123}{999} = \frac{3 \cdot 41}{3 \cdot 333} = \frac{41}{333}$$

3. 7.5 is what percent of 20?

$$37.5\%$$

4. Complete the table.

	Fraction	Decimal	Percent
a.	$\frac{1}{5}$	0.2	20%
b.	$\frac{4}{1000} = \frac{1}{250}$	0.004	0.4%
c.	$\frac{325}{10000} = \frac{13}{400}$	0.0325	3.25%

5. Suppose oranges sell for 6 for a \$1.50, how much would it cost for 15 oranges?

$$\frac{6}{1.50} = \frac{15}{x} \Rightarrow 6x = 22.5$$

$$x = 3.75$$