

Section 2.3 Quiz

- 1) Write a fraction with a value greater than one.

- 2) Bertha Hill got 21 out of 36 questions correct on Ms. Nice's test.
 - a. Write the ratio of questions correct to questions incorrect in fraction form.
 - b. Setup a proportion that would be used to solve for the percentage that Bertha should get on her test.
You do not have to solve it.

- 3) Solve the following proportions
 - a. $\frac{12}{a} = \frac{5}{4}$
 - b. $\frac{2.4}{6.3} = \frac{b}{12.1}$

- 4) 8 granola bars cost \$2.50. What is the rate of dollars per granola bar?

- 5) A biologist set several large traps in a meadow. On the first day, she caught 50 mice. She marked each mouse with non-toxic paint, then released it. The next day she caught 170 mice. Of these, 20 had been marked. About how many mice do you think live in the meadow? Write **both** the proportion used and the solution.

- 6) Solve using dimensional analysis. Show each fraction multiplied together and what units "cancel out". Use $1 \text{ gallon} = 3.785 \text{ liters}$ and $\text{€}1 \text{ (one Euro)} = \$1.43 \text{ (US Dollars)}$

Gas in Amsterdam, Netherlands is €1.20 per litre. Find out how much their gas costs in US dollars per gallon. Round your answer to the nearest cent.