

Name: _____

Math 10W Unit 1 Assessment Quiz 1

*show all of your work.

1. The ratio of cars to trucks in a parking lot is 3:2. If there are currently 15 cars in the parking lot, how many trucks are there?

CARS : TRUCKS

$$\begin{array}{ccc} & 3 & : & 2 \\ \times 5 \left(& & & \right) \times 5 \\ & 15 & : & x \end{array}$$

$x = 10$ THERE ARE 10 TRUCKS

2. If chocolate bars are being sold for 2 for \$1.50, how many can you get if you have \$6?

$$\begin{array}{ccc} & 2 & \text{FOR } \$1.50 \\ \times 4 \left(& & \right) \times 4 \\ & x & \text{FOR } \$6.00 \end{array}$$

$x = 8$

YOU GET 8 CHOCOLATE BARS

3. If 8 t-shirts cost \$96, what is the unit price of 1 t-shirt?

$$\begin{array}{l} \div 8 \quad \left(\begin{array}{l} 8 \text{ T-SHIRTS FOR } \$96 \\ 1 \text{ T-SHIRT FOR } \$X \end{array} \right) \div 8 \end{array}$$

$$X = \frac{96}{8} = \$12$$

\$12 PER T-SHIRT.

4. If grocery store A sells flour for \$5 for 2.5kg and grocery store B sells flour for \$7.50 for 3.5kg, which store has the best buy?

$$A: \frac{\$5}{2.5\text{kg}} = \frac{\$2}{1\text{kg}} \quad \leftarrow \text{BEST BUY!}$$

$$B: \frac{\$7.50}{3.5\text{kg}} = \$2.14 / 1\text{kg}$$