

Practice Quiz: Discounts & Mark-Ups

Name: Key

7th Grade Math

For #1-4, solve by creating a proportion **OR** an equation. Show all of your work for full credit.

1) 55 is 42% of what?

$$55 = .42x$$

Answer #1: x = 131
Nearest whole #

2) 62 is what percent of 79?

$$62 = x \cdot 79$$

$$x = .78481$$

$$x = 78.481\%$$

Answer #2: x = 78.5%
Nearest tenth of a %

3) A basketball player makes 44% of his shots and has attempted 294 total shots. How many shots has the basketball player made? Don't forget Units!

$$x = .44 \cdot 294$$

Answer #3: x = 129 shots
Nearest whole #

4) If a student earns 17 points on a quiz and the grade is a 94%, how many points was the quiz worth? Don't forget Units!

$$\frac{x}{17} = .94$$

Answer #4: x = 18 pts
Nearest whole #

SHOW WORK for #5-7. No work = no points!

5) A new truck costs \$24,000. How much money will the sales tax end up being here in MI? Don't forget Units!

$$\$24,000 \cdot .06$$

MI → 6%
sales
Tax

Answer #5: \$1,440
Nearest whole #

- 6) A \$250 bike is on sale for 15% off. What is the sale price before taxes?

Don't forget Units!

$$\text{Disc} \rightarrow \$250 \cdot .15 = \$37.5$$
$$\text{S.P.} \rightarrow \$250 - \$37.5 = \$212.5$$

Answer #6:

\$212.5

Nearest tenth of a \$

- 7) A new I-pad costs \$499. Apple is having a 5% off sale, teachers can get an additional 5% off the sale price. How much would Mr. Roy pay for the I-pad after both discounts AND 6% sales tax?

Don't forget Units!

$$\text{1st Disc.} \rightarrow \$499 \cdot .05 = \$24.95$$
$$\text{1st S.P.} \rightarrow \$499 - \$24.95 = \$474.05$$
$$\text{2nd Disc} \rightarrow \$474.05 \cdot .05 = \$23.7$$
$$\text{2nd S.P.} \rightarrow \$474.05 - \$23.7 = \$450.35$$
$$\text{TAX} \rightarrow \$450.35 \cdot .06 = \$27.02$$
$$\text{Total} \rightarrow \$450.35 + \$27.02$$

Answer #7:

\$477.37

Nearest penny