

Math 7 Practice Quiz #1
(Sections 2-3, 2-6, 2-7)

Name Key
Block _____ Date _____

1) The regular price of a game system is \$248. Find the sale price if it is marked 30% off.

30% off — pay 70%

$$\frac{\text{sale price}}{\text{Reg}} = \frac{70}{100} = \frac{n}{248}$$

$$n = 173.6$$

\$173.60

2) There is a 40% markup on all items sold in a toy store. If the store buys an item for \$18.59, how much will they sell it for?

their cost + 40%
 $100\% + 40\% = 140\%$

$$\frac{\text{cost to customer}}{\text{store's cost}} = \frac{140}{100} = \frac{n}{18.59}$$

$$n = 26.026$$

\$26.03

3) What is the total price of a \$14 calculator that includes a 6.35% tax?

cal. cost + tax
 $100\% + 6.35\%$

$$\frac{\text{Cost w/ tax}}{\text{Reg price}} = \frac{106.35}{100} = \frac{n}{14}$$

$$n = 14.889$$

\$14.89

4) Linda's family celebrated her birthday at a restaurant. The dinner bill was \$165. Since it was a large group, the restaurant calculated an 18% tip on the bill. How much was the tip?

tip = 18% of 165

$$0.18(165)$$

\$29.70 tip

5) An item is on sale for 30% off the regular price of \$24. Find the amount of savings.

$$\text{savings} = .30(24) = 7.2$$

30% off
\$ 7.20 off

6) Maria scored 35% of her team's points. If she scored 21 points, how many points did her team score? (Give answer to nearest whole number).

$$\frac{\text{Maria}}{\text{total team}} = \frac{35}{100} = \frac{21}{n}$$

$$n = \text{60 points}$$

7) Erin bought an item on sale for \$36. The regular price of the item was \$50. Find the percent discount on the item. discount $\frac{50-36}{50}$

$$\frac{\text{discount}}{\text{Red}} = \frac{n}{100} = \frac{14}{50}$$

$$n = 28$$

28% off

8) 65% of Ledyard students ride the bus to school. If there are 2400 students in Ledyard, how many students ride the bus?

$$\frac{\text{bus}}{\text{all students}} = \frac{65}{100} = \frac{n}{2400}$$

$$n = \text{1560 bus students}$$

9) Maria made 34 free throws last season. If this is 48% of all free throws she attempted, how many did she attempt?

$\frac{\text{made}}{\text{attempted}}$

$$\frac{34}{n} = \frac{48}{100}$$

$$n = 70.83 \dots$$

$$\approx 71 \text{ attempts}$$

10) There are 350 girls and 275 boys at a certain school. What percent of the school are girls?

$\frac{\text{girls}}{\text{total}}$

$$\frac{n}{100} = \frac{350}{625}$$

$$n = 56$$

$$56\% \text{ girls}$$

11) What number is 0.25% of 324?

$$\frac{0.25}{100} = \frac{n}{324}$$

$$n = 0.81$$

12) 24 is 16.8% of what number?

$$\frac{16.8}{100} = \frac{24}{n}$$

$$n = 142.857 \dots$$

$$\approx 142.9$$

Find the total cost of this item.

Regular Price \$458

35% off

6% sales tax

Find discount. $.35(458) = 160.30$ off

$$\begin{array}{r} 458 \\ - 160.30 \\ \hline \$ 297.70 \text{ sale price} \end{array}$$

6% tax on 297.70

$$.06(297.70) = 17.862$$

\$ 17.86 tax

$$\begin{array}{r} 297.70 \\ + 17.86 \\ \hline 315.562 \end{array}$$

\$315.56