



Warm Up Grade 8

1) The regular cost of a new pair of sneakers is \$129.90. The sneakers are on sale for **20% off**, what do you have to pay in TOTAL for the sneakers?



$$\begin{aligned} \text{Saved} &= 20\% \text{ off Cost} \\ &= 0.20 \times 129.90 \\ &= 25.98 \end{aligned}$$

$$\begin{aligned} \text{Sale Price} &= \text{Cost} - \text{Saved} \\ &= 129.90 - 25.98 \\ &= 103.92 \end{aligned}$$

$$\begin{aligned} \text{Tax Amount} &= 15\% \text{ of Cost} \\ &= 0.15 \times 103.92 \\ &= 15.58 \end{aligned}$$

$$\begin{aligned} \text{Cost w tax} &= 103.92 \\ &+ 15.58 \\ &= \boxed{\$119.45} \end{aligned}$$



Warm Up Grade 8

March 21, 2016

1) The regular cost of a new pair of sneakers is \$129.90. The sneakers are on sale for 20% off, what do you have to pay in TOTAL for the sneakers?



$$\begin{aligned} \text{Amount Discount} &= 20\% \text{ of } 129.90 \\ &= 0.2 \times 129.90 \\ &= \$25.98 \end{aligned}$$

$$\begin{aligned} \text{Sale Price} &= \text{Reg} - \text{Amount Discount} \\ &= 129.90 - 25.98 \\ &= \$103.92 \end{aligned}$$

$$\begin{aligned} \text{Tax} &= 15\% \text{ of Price} \\ &= 0.15 \times \$103.92 \\ &= \$15.59 \end{aligned}$$

$$\begin{aligned} \text{Total with tax} &= \text{Price} + \text{tax} \\ &= 103.92 + 15.59 \\ &= \$119.51 \end{aligned}$$

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| 1. Percent | Fraction | Decimal |
|------------|---|---------|
| a) 60% | $\frac{60}{100} = \frac{3}{5}$ | 0.60 |
| b) 9.75% | $\frac{9.75}{100} = \frac{975}{10000} = \frac{39}{400}$ | 0.0975 |
| c) 97.5% | $\frac{97.5}{100} = \frac{975}{1000} = \frac{39}{40}$ | 0.975 |

$$2a) 0.12\% = 0.0012$$

$$b) \frac{4}{5}\% = 0.8\% \\ = 0.008$$

$$c) 0.65\% = 0.0065$$

$$d) \frac{1}{10}\% = 0.1\% \\ = 0.001$$

3.

| | Percent | Fraction | Decimal |
|----|---------|------------------------------------|---------|
| a) | 18% | $\frac{18}{100} = \frac{9}{50}$ | 0.18 |
| b) | 0.6% | $\frac{6}{1000} = \frac{3}{500}$ | 0.006 |
| c) | 87.5% | $\frac{875}{1000} = \frac{7}{8}$ | 0.875 |
| d) | 0.75% | $\frac{75}{10000} = \frac{3}{400}$ | 0.0075 |

$$4a) 145\% = 1.45$$

$$b) 350\% = 3.50$$

$$c) 0.44\% = 0.0044$$

$$d) 0.2\% = 0.002$$

5 112% on a test

Yes, if he had every question correct and the bonus correct the mark can be over 100%

6. 0.8% of total = Hua's

$$0.8\% \text{ of } 5687.50$$

$$0.008 \times 5687.50$$

$$45.5$$

Hua raised \$45.50 for Terry Fox Fund.

7a) 15% of $n = 3$

$$0.15n = 3$$

$$\frac{0.15n}{0.15} = \frac{3}{0.15}$$

$$n = 20$$

$$15\% \text{ of } _ = 3$$

$$5\% \text{ of } _ = 1$$

$$100\% \text{ of } _ = 20$$

$$n = 20$$

b) 160% of $n = 80$

$$1.6n = 80$$

$$\frac{1.6n}{1.6} = \frac{80}{1.6}$$

$$n = 50$$

$$160\% \text{ of } _ = 80$$

$$20\% \text{ of } _ = 10$$

$$100\% \text{ of } _ = 10 \times 5$$

$$50$$

8. 8% of ticket were sold by Meryl

$$8\% \text{ of } \underline{n} = \underline{56}$$

$$0.08n = 56$$

$$\frac{0.08n}{0.08} = \frac{56}{0.08}$$

$$n = 700$$

$$\begin{aligned} 9. \text{ Amt of Dec} &= 9850 - 8274 \\ &= 1576 \end{aligned}$$

$$\begin{aligned} \% \text{ Dec} &= \frac{\text{Amt Dec}}{\text{Orig Amt}} \times 100\% \\ &= \frac{1576}{9850} \times 100\% \\ &= 0.16 \times 100\% \\ &= 16\% \end{aligned}$$

$$\begin{aligned} 10. \text{ Disc} &\sim 20\% \text{ of } 32 \\ &= 0.2 \times 32 \\ &= 6.40 \end{aligned}$$

$$\begin{aligned} \text{Sale Price} &= 32 - 6.40 \\ &= 25.60 \end{aligned}$$

$$\begin{aligned} \text{HST} &= 15\% \text{ of } 25.60 \\ &\sim 0.15 \times 25.60 \\ &= 3.84 \end{aligned}$$

$$\begin{aligned} \text{Total Price} &\sim 25.60 + 3.84 \\ &= 32.44 \end{aligned}$$

$$\begin{aligned}
 11. \text{ Sale Price} &= \text{Reg} - \text{Disc} \\
 &= 1n - 0.3n \\
 &= 0.7n
 \end{aligned}$$

$$\begin{aligned}
 \text{Disc} &= 36\% \text{ of Reg} \\
 &= 0.36n
 \end{aligned}$$

$$0.7n = 27.99$$

$$\frac{0.7n}{0.7} = \frac{27.99}{0.7}$$

$$n = 39.99 - \text{Reg Price}$$

Sale Price
is
70% of Reg

$$\begin{aligned}
 \text{b) HST on Reg Price} &= 0.15 \times 39.99 \\
 &= 6.00
 \end{aligned}$$

$$\begin{aligned}
 \text{Reg Price + taxes} &= 39.99 + 6.00 \\
 &= 45.99
 \end{aligned}$$

$$\begin{aligned}
 \text{c) HST on sale price} &= 15\% \text{ of } 27.99 \\
 &= 0.15 \times 27.99 \\
 &= 14
 \end{aligned}$$

$$\begin{aligned}
 \text{Sale Price + tax} &= 27.99 + 14 \\
 &= 41.99
 \end{aligned}$$

$$\begin{aligned}
 \text{d) Total Saving} &= 45.99 - 31.63 \\
 &= 13.56
 \end{aligned}$$

$$\begin{array}{l} 12. \text{ Disc} \\ \text{from} \\ \text{Sale} \end{array} \quad \begin{array}{l} 30\% \text{ of } 69 \\ 0.3 \times 69 \\ 20.70 \end{array}$$

$$\begin{array}{l} \text{Sale Price} \\ \\ \end{array} \quad \begin{array}{l} 69 - 20.70 \\ 48.30 \end{array}$$

$$\begin{array}{l} \text{Employee} \\ \text{Disc} \end{array} \quad \begin{array}{l} 15\% \text{ of } 48.30 \\ 0.15 \times 48.30 \\ 7.25 \end{array}$$

$$\begin{array}{l} \text{Employee} \\ \text{Price} \end{array} \quad \begin{array}{l} 48.30 - 7.25 \\ 41.05 \end{array}$$

$$\begin{array}{l} \text{HST} \\ \\ \end{array} \quad \begin{array}{l} 15\% \text{ of } 41.05 \\ 0.15 \times 41.05 \\ 6.16 \end{array}$$

$$\begin{array}{l} \text{Total} \\ \text{Price} \end{array} \quad \begin{array}{l} 41.05 + 6.16 \\ 47.21 \end{array}$$

12

$$\begin{aligned}
 &30\% \text{ of } 69 \\
 &0.3 \times 69 \\
 &20.70
 \end{aligned}$$

$$\begin{aligned}
 &48.30 - 7.25 \\
 &41.05
 \end{aligned}$$

$$\begin{aligned}
 &69 - 20.70 \\
 &48.30
 \end{aligned}$$

$$\begin{aligned}
 &15\% \text{ of } 48.30 \\
 &0.15 \times 48.30 \\
 &7.25
 \end{aligned}$$

$$\begin{aligned}
 &5\% \text{ of } 41.05 \\
 &0.05 \times 41.05 \\
 &2.05
 \end{aligned}$$

$$\begin{aligned}
 &41.05 + 5.34 \\
 &46.39
 \end{aligned}$$

$$1) \ 170\% \text{ of } 58$$

$$\downarrow$$

$$1.70 \times 58$$

$$=$$

$$2) \ 67 \rightarrow 27$$

$$\text{Diff} = \text{Big} - \text{Small}$$

$$\downarrow \frac{\text{Diff}}{\text{Orig}} \times 100$$

Homework

Extra Practice 4

1, 2a, b, 3 for computer only, 4 percent decrease only, 6, 7

$$\# 2) \rightarrow \frac{\text{Today}}{\text{Yest}} = \frac{37}{33}$$

Mid Unit Review Worksheet

Quiz Tomorrow

Attachments

Extra Practice 4.pdf

Mid Unit Review Worksheet.pdf