



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?



$$\begin{aligned} \text{Amount Discounted} &= 20\% \text{ of Price} \\ &= 0.20 \times 129.90 \\ &= \$25.98 \end{aligned}$$

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

$$\begin{aligned} \text{Tax} &= 13\% \text{ of Sales Price} \\ &= 0.13 \times 103.92 \\ &= \$13.51 \end{aligned}$$

$$\begin{aligned} \text{Cost w tax} &= \text{Sales Price} + \text{tax} \\ &= 103.92 + 13.51 \\ &= 117.43 \end{aligned}$$

$$0.36 \begin{array}{l} \uparrow \text{ tenths} \\ \uparrow \text{ hundredths} \end{array} = \frac{36}{100} = \frac{18}{50} = \frac{9}{25}$$

$\times 100$

$$36\%$$

$$0.5\% \xrightarrow{\div 100 \text{ dec}} 0.005 = \frac{5}{1000} = \frac{1}{200}$$

Corey is 13 yrs old he is 95% of his adult height which is 183 cm. Find his height at age 40. (adult height)

$$95\% \text{ of adult height} = 183$$
$$\cancel{0.95} \times A = \frac{183}{\cancel{0.95}}$$

$$A = 192.6 \text{ cm}$$

Corey is 192.6 cm at age 40



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

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

$$\begin{aligned}\text{Tax} &= 13\% \text{ of Price} \\ &= 0.13 \times \$103.92 \\ &= \$13.51\end{aligned}$$

$$\begin{aligned}\text{Total with tax} &= \text{Price} + \text{tax} \\ &= 103.92 + 13.51 \\ &= \$117.43\end{aligned}$$

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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

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

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

$$c) 0.65\% = 0.0065$$

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

$$32\% = \frac{32}{100}$$

$$8.5\% = \frac{8.5 \times 10}{100 \times 10} = \frac{850 \overset{\cdot 25}{}}{1000 \overset{\cdot 25}{}}$$

$$0.56\% = \frac{0.56 \times 100}{100 \times 100} = \frac{56}{10000}$$

↓
0.0056

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 Found.

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

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

$$0.08n = 56$$

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

$$n = 700$$

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

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

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

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

$$\begin{aligned} \text{HST} &= 13\% \text{ of } 25.60 \\ &= 0.13 \times 25.60 \\ &= 3.33 \end{aligned}$$

$$\begin{aligned} \text{Total Price} &= 25.60 + 3.33 \\ &= 28.93 \end{aligned}$$

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

$$\begin{aligned}
 \text{Disc} &= 36\% \text{ of Reg} \\
 &= 0.3 \times n
 \end{aligned}$$

$$0.7n = 27.99$$

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

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

$$\begin{aligned}
 \text{Sale Price} \\
 &= 70\% \text{ of Reg}
 \end{aligned}$$

$$\begin{aligned}
 \text{b) HST on Reg Price} &= 0.13 \times 39.99 \\
 &= 5.20
 \end{aligned}$$

$$\begin{aligned}
 \text{Reg Price + taxes} &= 39.99 + 5.20 \\
 &= 45.19.
 \end{aligned}$$

$$\begin{aligned}
 \text{c) HST on sale price} &= 13\% \text{ of } 27.99 \\
 &= 0.13 \times 27.99 \\
 &= 3.64
 \end{aligned}$$

$$\begin{aligned}
 \text{Sale Price + tax} &= 27.99 + 3.64 \\
 &= 31.63
 \end{aligned}$$

$$\begin{aligned}
 \text{d) Total Saving} &= 45.19 - 31.63 \\
 &= 13.56
 \end{aligned}$$

#1 (6 points)

#2 (3 points)

#3 (6 Points)

#4 (3 points)

Class size this week is 30

Next week our pop will increase by 10%

the next week our class will increase by 20%

Week 1

people
join 10% of 30
 0.10×30
 3

New Pop $30 + 3$
 33

Week

20% of 33 = 6.6

$0.20 \times 33 = 6.6$

New Pop = $33 + 6.6$
 = 39.6
 ≈ 40

Attachments

Extra Practice 4.pdf

Mid Unit Review Worksheet.pdf