

GMF 10

Lesson 1.4

1.4

On Sale!

Warm up

Mental Math and Estimation

\$1248.75

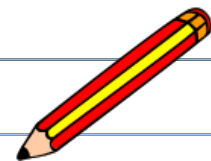
If you set the price of a bike helmet at \$49.95 and sell 25, how much less income will your store generate than if you sold the same number at \$54.95?

$$\begin{array}{r}
 - 1373.75 \\
 1248.75 \\
 \hline
 * 125
 \end{array}$$

\$1373.75

Feb 5-3:45 PM

With sale price you deduct the sale value from the retail price.



With mark up you add the mark up value to the wholesale price.

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Example 1

Samantha wants to buy a new TV. The model she likes costs \$675.95, but the clerk tells her that it is going on sale next week at 20% off. If Samantha waits one week, how much will she save on the price of the TV?

SOLUTION

The discount is 20%, so find 20% of \$675.95 by multiplication.

Convert 20% to a decimal.

$$20 \div 100 = 0.20$$

Multiply 0.20 by the original price.

$$0.20 \times \$675.95 = \$135.19$$

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50 MathWorks 10 Workbook

BUILD YOUR SKILLS

1. How much will Jordan save on the price of a computer listed at \$989.98 if it is discounted by 30%?

$$\begin{aligned} & 30\% \text{ of } 989.98 \\ & 0.30 \times 989.98 \\ & = \$296.99 \end{aligned}$$

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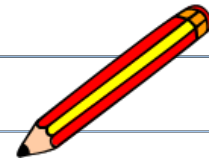
BUILD YOUR SKILLS

4. Sarbjit charges \$24.95 for a haircut in her beauty salon, but gives students a 30% reduction on Thursday evenings. How much would you have to pay to have your hair cut on a Thursday evening?

$$\begin{array}{r}
 30\% \text{ of } 24.95 \\
 0.30 \times 24.95 = \$7.49 \\
 \begin{array}{r}
 24.95 \\
 - 7.49 \\
 \hline
 \$17.46
 \end{array}
 \end{array}$$

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To calculate the % off you need to:



$$\frac{\text{Difference (original retail price - sale price)} \times 100}{\text{original retail price}}$$

52

A product is advertising the original price to be \$62 with \$10 off.

What percent is the discount?

$$\begin{aligned}
 \% \text{ discount} &= \text{amount off} / \text{original price} = 10 / 62 = 0.16 \times 100 = \\
 &16\%
 \end{aligned}$$

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BUILD YOUR SKILLS

on sale

7. What is the percentage markdown if a \$175.00 item sells for \$150.00?

$$\begin{array}{r} X \\ \hline 100 \end{array} = \frac{25}{175}$$

$$\frac{175X}{175} = \frac{2500}{175}$$

$$X = 14\%$$

$$\frac{175 - 150}{175} = \frac{25}{175} = 0.1428 \times 100 = 14\%$$

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Example 1

Jonas needs to buy a new winter jacket. He has waited for a sale, and a jacket that originally cost \$249.95 is now discounted 20%. How much will the jacket cost if Jonas lives in Nova Scotia, where HST is 15%?

$$20\% \text{ of } 249.95 = 49.99$$

$$\begin{array}{r} 249.95 \\ - 49.99 \\ \hline 199.96 \end{array} \times 0.15 = 29.99$$

$$\begin{array}{r} 199.96 \\ + 29.99 \\ \hline 229.95 \end{array}$$

$$\begin{array}{r} 199.96 \\ \times 1.15 \\ \hline 229.95 \end{array}$$

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