

Learning Objective: Students use their understanding of ratios and proportionality to solve a wide variety of percent problems, including those involving discounts, interest, taxes, tips, and percent increase or decrease.

Marty purchased a jacket at a discounted price. The original price was \$90. If the jacket was 20% off, calculate the discounted price of the jacket.

Be sure to explain your thinking. Represent your thinking in more than one way. How do you know that your answer is correct?



$$\begin{array}{r} 20 \\ 5 \overline{) 100} \\ \underline{-100} \\ 00 \end{array}$$

$$\begin{array}{r} 20 \\ \times 5 \\ \hline 100 \end{array}$$

$$\begin{array}{r} 18 \\ 5 \overline{) 90} \\ \underline{-50} \\ 40 \\ \underline{-40} \\ 0 \end{array}$$

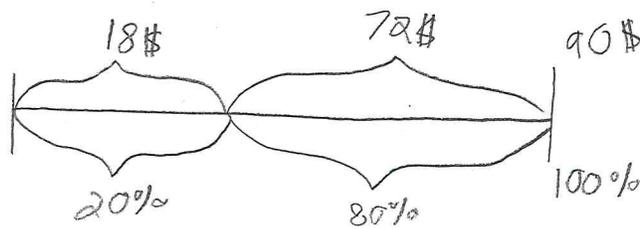
I know my answer is correct because if $100\% = 5 = 20$ then $90 \div 5 = 18$

The discounted price is \$18.00

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$$9 \times 2 = 18$$

90

$$90/10 = 9$$

$$9 \times 8 = 72$$

the discounted price is 72\$

90

$$10\% = 9\$$$

$$9 \times 2 = 18\$$$

$$20\% = 18\$$$

$$90 - 18 = 72$$

$$80\% = 72\$$$

discount price is 72\$

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$$\begin{array}{r} \textcircled{4.10} \\ 20 \overline{) 90.0} \\ \underline{-80} \\ 100 \\ \underline{-100} \\ 000 \end{array}$$

$$\begin{array}{r} 40 \\ -20 \\ \hline 70 \end{array}$$

either
4.10 or \$70

$\$70$

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$$\begin{array}{r|l} 90 & 100 \\ 9 & 10 \\ 18 & 20 \\ \hline 72 & 80 \end{array}$$
$$\begin{array}{r} 90 \\ -18 \\ \hline 72 \end{array}$$
$$(\$72)$$

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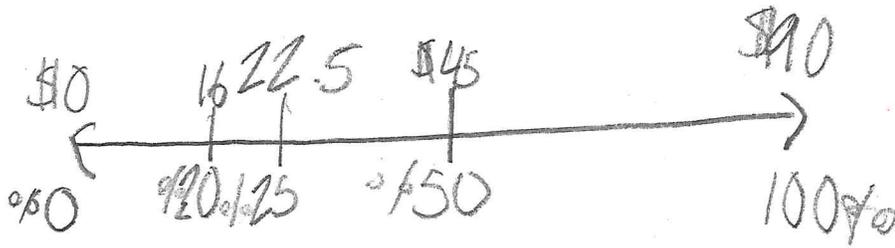
The jacket is now \$72. I found this out because I knew that 100 was 100% so if I divided it by 10 then I would find 10% which was \$9. I doubled that to get 20% (\$18) and subtracted that from 100% (\$90) to get 80% or 20% off which was \$72.

$$\begin{array}{r} 100 \\ - 20 \\ \hline 80 \end{array} \qquad \begin{array}{r} 90 \\ - 18 \\ \hline 72 \end{array}$$

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$$\begin{aligned} 20 \div 5 &= 4 & 0.5 &= \frac{1}{2} \\ 2 \div 5 &= 2.5 \\ 5 \div 5 &= 1 \end{aligned}$$

50¢ 50¢ 50¢

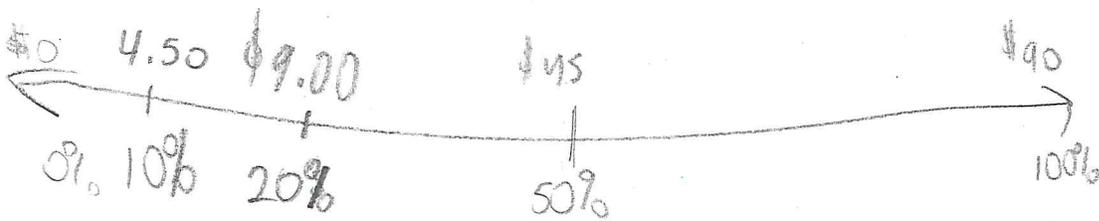
22.5
6.5

$$\%20 \text{ off} = 16$$

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$$\begin{array}{r} 24 \\ 10 \overline{) 45} \\ -40 \\ \hline 5 \end{array}$$
$$\begin{array}{r} 1 \\ 4.50 \\ +4.50 \\ \hline 9.00 \end{array}$$

The Discounted price of the jacket would Be \$81

$$\begin{array}{r} 81 \\ -9 \\ \hline 81 \end{array}$$