

10/24

### Finding Original Price

↳ On Shoot, this is different

\* We're Working backwards \*

Before	Now
<p style="color: blue; font-size: small;">Discount</p> <p>What is 40% of \$80?</p> $.40 \times 80 = 32$ $\begin{array}{r} -32 \\ \hline \$48 \end{array}$	<p>\$48 of What is 40% off?</p> <p style="color: red;">Paying 60%.</p> $\frac{60}{100} = \frac{48}{X}$ $\frac{60x}{60} = \frac{4800}{60}$ <div style="border: 1px solid blue; padding: 2px; display: inline-block; margin-left: 20px;">X = \$80</div> $48 \div 0.60 = \$80$

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## Steps

- ① Find the % you are still paying (Subtract From 100)
- ②A Use the proportion BUT Sales price goes on the TOP

OR

$$\frac{\%}{100} = \frac{\text{Price}}{X}$$

- ②B Divide Sales Price by % you're paying

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Examples

① Shirt on Sale: \$13  
 30% discount  $\rightarrow$  70%  
 Find original Price  
 $13 \div .70 = \$18.57$

② Shoes on Sale: \$35  
 40% discount  
 $\rightarrow$  pay 60%  
 $35 \div 0.60 =$   
 $\$58.33$

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③ Calendar on Sale: \$6.50  
 Discount 75%  
 $6.50$   
 $75\%$   
 $\downarrow$   
 $25\%$   
 $6.50 \div .25 = \boxed{\$26}$

Jersey on Sale: \$85  
 Discount: 60%  
 $\downarrow$   
 $40\%$   
 $85 \div 0.4 = \boxed{\$212.50}$

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