## Chapter 8: Percentage

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Q1. Find the value of each of the following:
(c) Decrease 120 by 45\%

$$
\begin{aligned}
& 96 \\
& \begin{array}{rlrl}
\text { Decrease } & =\frac{45}{100} \times 120 & \text { (OR) New Value } & =\frac{55-1}{100} \times 120-1 \\
& =9 \times 6 \\
& =54 & & =11 \times 6 \\
& =1
\end{array} \\
& \text { New Value = 120-54 } \\
& =66
\end{aligned}
$$

Q2. (d) The result of a number, when decreased by $\mathbf{2 0 \%}$, is 192 . Find the number.

New value = 192
Percentage decrease = 20 \%
Old value =?
We have, Old Value $=\frac{\text { New Value }}{\text { Final Percent }}$

$$
\begin{aligned}
& =\frac{192}{80 / 100} \\
& 48 \quad 5 \\
= & 192 \times \frac{-100}{80} \\
= & 48 \times 5 \\
= & 240
\end{aligned}
$$

Hence the old number is $\mathbf{2 4 0}$

Q9. If $\mathbf{1 0 \%}$ is deducted from a bill, $\mathbf{\$ 5 8 . 5 0}$ remains to be paid. How much is the original bill?

New Value= \$58.5
Percentage decrease $=10 \%$
Old value =?
We have, Old Value $=\frac{\text { New Value }}{\text { Final Percent }}$

$$
\begin{aligned}
& =\frac{58.5}{90 / 100} \\
= & 58.5 \times \frac{100}{9 \grave{\phi}} \\
= & \frac{65}{10} \times \frac{585}{9-} \\
= & 65
\end{aligned}
$$

Hence the original bill is $\$ 65$

