BALABHADRA SKILL DEVELOPMENT ACADEMY MATHS FORMULA - 6 ARITHMETIC

DISCOUNT

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SI	Situation	Formula
01	If there is a discount of r% on the marked price	SP=Marked price - Discount
	of an item, then selling price of an item	= Marked price $\times \left(1 - \frac{r}{100}\right)$
02	If marked price of an item is Rs. X and the	
	successive discount rates on the marked price	$SP = x \times \left(1 - \frac{r_1}{100}\right) \left(1 - \frac{r_2}{100}\right)$
	are r1%, r2%, r3% and so on, then selling	$\left(1-\frac{r_3}{100}\right)$
	price of the item	1007
03	If a shopkeeper wants a profit of R% after	$\langle n \rangle = \langle n \rangle / \langle 100 + R \rangle$
	allowing a discount of r%,	$MP = CP \times \left(\frac{100 + R}{100 - r}\right)$
	(a)then Marked Price (MP) of the item is	
	(b)Cost Price (CP) of the item is	(100+R)
04	Single discount equivalent to two successive	$\left(r_1 + r_2 - \frac{r_1 \times r_2}{100}\right)\%$
	discounts of r ₁ % and r ₂ %	$(r_1 + r_2 - \frac{100}{100})$ %
05	Single discount equivalent to three successive	$\left[1-\left(1-\frac{r_1}{r_1}\right)\left(1-\frac{r_2}{r_2}\right)\right]$
	discounts of r ₁ %, r ₂ % and r ₃ %	$ \begin{vmatrix} 1 - \left(1 - \frac{r_1}{100}\right) \left(1 - \frac{r_2}{100}\right) \\ \left(1 - \frac{r_3}{100}\right) \end{vmatrix} \times 100\% $
0.0	A STATE OF THE STA	$\left[\frac{(1-\frac{1}{100})}{100} \right]$
06	A merchant fixes the marked price of an article	
	in such a way that after allowing a discount of	$\left(\frac{r+R}{100-r}\times 100\right)\%$
	r%, he earns a profit of R%, then marked price	$(100 - r^{-100})^{20}$
	of the article is more than its cost price by	
07	If a shopkeeper allows a discount of $r_1\%$ on an	m × (100
	item and marked price of the item is r% more	$\left(\frac{r \times (100 - r_1)}{100} - r_1\right)\%$
	than the cost price, then profit or loss percent	(100 -)
	in this transaction	
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