



EXAMPLE SET UP:
EXAMPLE SET OF CONTROUTED PLATE 150, CT KARNAL RADAL ANAMORPURT DELHE 110033
20. (B) Given,
$$pq + qr + rp = 0$$

 $\Rightarrow \neg qr - pr + rp$
 $\Rightarrow \frac{p}{p^{2}-qr} + \frac{q^{2}}{q^{2}-qr} + \frac{r^{2}}{r^{2}-pq}$
 $= \frac{p^{2}}{p^{2}-qr} + \frac{q^{2}}{q^{2}-qr} + \frac{r^{2}}{r^{2}-pq}$
 $= \frac{p^{2}}{p^{2}+qr} + \frac{q^{2}}{q^{2}-qr} + \frac{r^{2}}{r^{2}-pq}$
 $= \frac{p^{2}}{p^{2}+qr} + \frac{q^{2}}{q^{2}-qr} + \frac{r^{2}}{r^{2}-qr} + \frac{r^{2}}{r^{2}-qr}$
 $= \frac{p^{2}}{p^{2}+qr} + \frac{q^{2}}{q^{2}+pq+qr} + \frac{r^{2}}{r^{2}+qr} + \frac{r^{2}}{q^{2}+qr} + \frac{r^{2}}$







EXAMPLE 10
EXAMPLANCE OF CONTROLUTION SET OF CONTROL FORMULA 103
44. (B) Ratio of people who get 1 kg box 2 kg
box and 500 gm box
$$2 \le 3:6$$

Since 5 boxes at like are suil remaining
and Total number of 1 kg boxes was 16
more than total number of 2 kg boxes was 16
 $1 \ge 2x + 1 = 156$
Since 9 boxes are remaining:
 $\therefore 4x + 4 = 3x + 16$
 $\Rightarrow x - 12$
Number of people who recieved the gift
 $-12 \times 13 - 156$
Since 9 boxes are remaining:
 \therefore Total number of gift boxes = 156 + 9 = 165
45. (B) $\underbrace{(1 + w C + a = 4)}_{0 \le 1} \underbrace{(1 + 2x)}_{0 \le 1} = 11$
 $\Rightarrow x + 1$
 $\Rightarrow x + 12$
 $= x + 1 \Rightarrow [(3)^{2xy} + 1] = (2, 2)^{2xy} + 1]$
46. (C) Suppose CP of a notebook is $4 \cdot 3k$ and thus SP of a pen will be $4 \cdot 2k$.
From the figure
 $x + y + w + 25 = -0.45 \times 400 = -180$
 $x + y + z + w + 25 = -0.45 \times 400 = -230$
 $y + z + w + 110 = 0.725 \times 400 = 230$
 $y + z + w + 110 = 0.725 \times 400 = 230$
 $x + y + z + w + 25 = 45 + 110 = 400$
 $= x + y + z + w + 220$
Solving all 4 equations:
 $\Rightarrow x = 40, y = 35, z = 65$ and $w = 80$
Number of players who played in both
 $1^w W C$ and $2^w W C$ but not in $3^w W C - x - 60$
46. (B) Numbers divisible by 3 $- \frac{999}{7} = 100$
Number divisible by 3 $- \frac{948}{3} = -316$
Number divisible by 3 $- \frac{948}{$











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