

W.B P<sub>153</sub> + P<sub>154</sub>

1) a) Tracksuit ; Fabric  
 $\begin{matrix} \times 8 & \leftarrow & 1 \\ & & 8 \end{matrix}$        $\begin{matrix} 160\text{m} \\ ? \end{matrix}$

$160 \times 8 = 1280 \text{ m of Fabric needed.}$

b) Cake : Cocoa

$\begin{matrix} \times 3 & \leftarrow & 1 & : & 30\text{g} \\ & & 3 & : & ? \end{matrix} \times 3$

$30 \times 3 = 90 \text{ g of Cocoa needed, Yes}$   
 $100 - 90 = 10 \text{ g left.}$

c) Y : R

$\begin{matrix} \times 3 & \leftarrow & 5 & : & 2 \\ & & ? & : & 6 \end{matrix} \times 3$

$5 \times 3 = 15$  tins of Yellow paint Samir needs.

d) Padma : Toby

half  $\begin{matrix} 4 & : & 3 \\ 2 & : & ? \end{matrix}$

half of 3 is 1.5 Km Toby runs in same time of Padma.

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e) Seconds : Portion

$\begin{matrix} \times 5 & \leftarrow & 15 & : & 1 \\ & & ? & : & 5 \end{matrix} \times 5$   
 $15 \times 5 = 75 \text{ seconds}$

OR

Seconds : Portion  
45 : 3

Simplify ratio it becomes  
15 : 1

Always use ratio in Simplest Form

f) Pens : Cost cents  
 $\begin{matrix} 6 & 240 \\ ? & 360 \end{matrix}$

Use equivalent fractions.

$\frac{6}{\square} = \frac{240}{360}$   
 $\frac{6}{\square} \xrightarrow{\div 40} \frac{240}{360}$   
 $\frac{6}{\square} \xrightarrow{\div 40}$

$360 \div 40 = 9$   
 9 Pens.

OR Find price of 1 Pen

$\frac{240}{6} = 40 \text{ cents}$

$360 \text{ cents} \div 40 \text{ cents} = 9$  Pens can be bought.

h) Cake : Cost  
 $\begin{matrix} 6 & : & \$360 \\ 8 & : & ? \end{matrix}$

equivalent fractions

$\frac{6}{8} = \frac{360}{\square}$   
 $\frac{6}{8} \xrightarrow{\times 60} \frac{360}{\square}$   
 $\frac{6}{8} \xrightarrow{\times 60}$

$8 \times 60 = \$480$  cost of 8 cakes.