and $\dfrac{(3x - 2y)}{(7x + 2y)} \times 27000 = 9000$

$\Rightarrow 7x + 2y = 9x - 6y$

$\Rightarrow x = 4y$

So,

$\qquad 7 \times 4y + 2y = 60$

$\Rightarrow \qquad\qquad y = 2$ days

$\Rightarrow \qquad\qquad x = 8$ days

So, B worked for 8 days.

11.(B)

Samir — 10 ⟍ 3
Puneet — 15 ⟋ 2 ⟩ 30

3 days work together = 3 × 5 = 15 work

Remaining work = 30 – 15 = 15

Samir + Puneet + Ashok work together for 2 days = 15 work

Per day work efficiency = $\dfrac{15}{2}$ = 7.5

Eff.   Samir   Puneet   Ashok
        3   :   2   :   2.5 = 7.5

Work done by Ashok = 2.5 × 2 days = 5 work

Ashok's wages = $\dfrac{4500}{30} \times 5$ = ₹750

12.(B)

S — 8.5 ⟍ 6
S + V — 6 ⟋ 8.5 ⟩ 8.5 × 6

Eff.   S   :   V
        6   :   2.5

share of Vishnu = $\dfrac{8500}{8.5} \times 2.5$

$\qquad\qquad\qquad = $ ₹2500

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HEAD OFFICE : 201, Himmat Nagar, Gopalpura Mode, Tonk Road, Jaipur-302018
0141-2711689, +91-7073909991 | www.motherseducationhub.org