Codeyoung

Checkpoint Assessment_Ratio and Proportion

A cistern can be filled by two taps A and B in 12 hours and 16 hours respectively. The full cistern can be emptied by a third tap C in 8 hours. If all the taps are turned on at the same time, in how much time will the empty cistern be filled completely?

(a) 37 hrs 30 min

(b) 48 hrs

(c) 28 hrs and 15 min

(d) 32 hrs

A and B are working on an assignment. A takes 6 hours to type 32 pages on a computer while B takes 5 hours to type 40 pages. How much time will they take, working together on two different computers, to type an assignment of 110 pages?

(a) 7 hrs 30 min

(b) 8 hrs

(c) 8 hrs and 15 min

(d) 8 hrs 25 min

Smith and Thomas can do a piece of work in 72 days; Thomas and Clark can do it in 120 days; Smith and Clark can do it in 90 days. In what time can Smith, Thomas and Clark do it, working together?

(a) 60 days

(b) 66 days

(c) 75 days

(d) 80 days

Clark can do a work in 9 days and Nelson in 15 days. If they work on it together for 5 days then the fraction of the work that is left, is _____ .

(a) 1/15

(b) 1/10

(c) 11/15

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(d) 1/9

A can do 1/3 of a work in 5 days and B can do 2/5 of the work in 10 days. In how many days can both A and B together do the work?

(a) $7^{3}/_{4}$ days

(b) $8^{4}/_{5}$ days (c) $9^{3}/_{8}$ days

(d) 10 days

A pipe can fill a water tank in 8 hours. Due to a leak in the bottom of the water tank, it is filled in 10 hours. If the water tank is full, how much time will the leak take to empty it?

(a) 36 hours

(b) 42 hours

(c) 45 hours

(d) 40 hours

A alone can do a piece of work in 10 days and B alone can do it in 15 days. In how many days will A and B together do the same work?

(a) 5

(b) 6

(c) 8

(d) 9

Jack can finish a work in 10 days and Tom can do the same work in half the time taken by A. Then, working together, what part of the same work they can finish in a day?

(a) 3/10

(b) 1/9

(c) 2/5

(d) 2/7

A man can do a piece of work in 5 days, but with the help of his son, he can dolt in 3 days. In what time can the son do it alone?

(a) $6^{1}/_{2}$ days

(b) 7 days

(c) $7^{1}/_{2}$ days

(d) 8 days

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White can do a job in 15 days and Lee can do the same job in 9 days. With the help of Scott, they did the job in 3 days only. Then, Scott alone can do the job in _____

(a) $6^1/_5$ days

(b) $6^2/_5$ days

(c) $6^3/_7$ days

(d) 10 days

P can do ¼ of a work in 10 days; Q can do 40% of the work in 15 days and R can do 1/3 of the work in 13 days. Who will complete the work first?

(a) P

(b) Q

(c) R

(d) P and R both

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