Quiz Date: 21ˢᵗ March 2020

Q1. Two taps A and B can fill a tank in 30 min and 36 min respectively. Both taps are opened together but due to same problem they work $\frac{5}{6}$ and $\frac{9}{10}$ of their efficiency. After 'x' minutes the problem was solved and the total time taken by taps to fill the whole tank in 16 ½ min. Then, find the value of 'x'?
(a) 0.5 minute
(b) 1 minute
(c) 1.5 minute
(d) 2 minutes
(e) 2.5 minutes

Q2. In a wine bottle there is 32% spirit. Some quantity of the wine is taken out and is replaced with another type of wine which contains 18% spirit. Now the spirit in the bottle becomes 28%. Find what part of the wine was taken out ?
(a) $\frac{2}{5}$
(b) $\frac{5}{2}$
(c) $\frac{2}{7}$
(d) $\frac{5}{9}$
(e) $\frac{2}{9}$

Q3. Satish started his journey by a boat from point A to point B. After 6.5 hours he covered only 20% of the total distance and reach at point M. Now, Satish started from point M, and reached at the mid- point of A and B and came back to Point M in 29.25 hours. In how many time Satish can cover the distance between Point B and Point A if he started from Point B?
(a) 58.5 hours
(b) 32.5 hours
(c) 65 hours
(d) 62.5 hours
(e) 40 hours

Q4. If A, B and C together can complete a piece of work in 10 days. Initially they started work together but C working only for first 3 days and in these 3 days 37% of work had been completed, rest of work is done by A & B together in 7 days. If A's 5 days work = B's 4 days work then B alone can complete the work in how many days?
(a) 20 days
(b) 25 days
(c) 30 days
(d) 40 days
(e) 35 days

Q5. The distance between 2 stations x and y in 650 km. If two trains (A and B) start together at the same time from both stations towards each other and meet after 10 hrs but if train A is started 4 hrs 20 min after the train B then they meet after 8 hours. Find the speed of trains A and B respectively.
(a) 35 km/hr, 30 km/hr
(b) 35 km/hr, 40 km/hr
(c) 25 km/hr, 40 km/hr
(d) 20 km/hr, 45 km/hr
(e) 32.5 km/hr, 32.5 km/hr

Direction (6-10): Solve the following questions and find the value of (?)
Q6. $\frac{3}{4}$ of $424 + \frac{5}{6}$ of $540 = \frac{6}{7}$ of $343+$?
(a) 744
(b) 474
(c) 374
(d) 574
(e) 478

Q7. 33% of 600 + 44% of 225=? % of 500
(a) 56.4
(b) 5.94
(c) 59.4
(d) 49.4
(e) 69.4

Q8. 3453 ÷ 30 + 5555 ÷ 500 =? − 777 ÷ 70
(a) 13.371
(b) 133.71
(c) 13.731
(d) 137.31
(e) 131.73

Q9. 101 × 6 + 450 ÷ 15 =? % of 200
(a) 813
(b) 318
(c) 418
(d) 518

(e) 218

Q10. $13^2 + 17^2 + 23^2 - 24^2 = ? + 6^3$
(a) 269
(b) 159
(c) 195
(d) 185
(e) 175

Directions (11-15): The following information is about the production of bikes by 3 different companies from Monday to Friday in a specific week. Read the information carefully and answer the following question:–

The total production by 3 companies on Monday was 540 out of which $33\frac{1}{3}\%$ bikes were produced by Hero. The number of bikes produced by Bajaj on Monday are less than the bikes produced by Hero on Monday by the same extent as the number of bikes produced by Honda on Monday is more than the bikes produced by Hero on Monday. The difference between bikes produced by Bajaj and Honda on Monday is 40. 150 bikes are produced by Hero on Tuesday, which is 100 less than the bikes produced by the same company on Wednesday. A total of 910 bikes were produced by Hero from Monday to Friday. The ratio between bikes produced by Hero on Thursday to bikes produced by the same company on Friday is 5 : 6. 220 bikes were produced by Bajaj on Tuesday, which is 80 less than the bikes produced by Honda on Wednesday. A total of 570 bikes were produced on Tuesday, which is 76% of the total bikes produced on Wednesday. The number of bikes produced by Honda on Thursday is $66\frac{2}{3}\%$ more than bikes produced by Hero on the same day. Total 580 bikes were produced on Thursday. The number of bikes produced by Honda on Friday is same as that on Monday. 140 bikes were produced by Bajaj on Friday.

Q11. Find the ratio between total bikes produced on Tuesday to that on Wednesday.
(a) 17 : 22
(b) 18 : 23
(c) 19 : 25
(d) 18 : 25
(e) 16 : 23

Q12. Bikes produced by Bajaj on Wednesday are what percent of total bikes produced by Bajaj from Monday to Friday?
(a) $22\frac{2}{9}\%$
(b) $18\frac{8}{9}\%$
(c) $24\frac{4}{9}\%$
(d) $23\frac{2}{9}\%$
(e) $25\frac{5}{9}\%$

Q13. Find the average number of bikes produced per day by Honda from Monday to Friday. (approximate)
(a) 250
(b) 220
(c) 270
(d) 240
(e) 230

Q14. On which pair of days, the number of bikes produced by Hero is the same ?
(a) Tuesday and Wednesday
(b) Wednesday and Thursday
(c) Tuesday and Thursday
(d) Monday and Wednesday
(e) Monday and Tuesday

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Q15. If bikes produced by Honda on Saturday is 25% less than bikes produced by Bajaj on Wednesday and ratio of bikes produced by Hera and Honda on Saturday is 23 : 25, then find bikes produced by Bajaj on Saturday if total bikes produced on Saturday is 430?
(a) 156
(b) 184
(c) 142
(d) 136
(e) 166

Solutions

S1. Ans.(b)
Sol.
Let, the capacity of tank = 180 ℓ
'A' one minutes work $= \dfrac{180}{30} = 6$
'B' one minute work $= \dfrac{180}{36} = 5$
Problem occur after 'x' minutes, due to this
New efficiency of 'A' $= 6 \times \dfrac{5}{6} = 5$

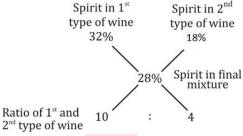New efficiency of 'B' $= 5 \times \dfrac{9}{10} = 4.5$

ATQ,

$9.5x + 11\left[\dfrac{33}{2} - x\right] = 180$

$181.5 - 180 = 1.5x$

$x = \dfrac{1.5}{1.5} = 1$ minutes

S2. Ans.(c)
Sol.

Hence the part of wine taken out

$= \dfrac{2}{5+2} = \dfrac{2}{7}$

S3. Ans.(c)
Sol.
Let total distance from A to B = 'D'
ATQ, Satish cover 20% distance in 6.5 hours So, he can cover 30% distance (M to mid-point of A and B) in

$\dfrac{6.5}{2} \times 3 = 9.75$ hr.

Time taken by Satish to come back from mid-point to M = 29.25 – 9.75 = 19.5 hr
30% distance covered by Satish in 19.5 hr.
100% distance covered by Satish in $\dfrac{19.5}{3} \times 10 = 65$ hr

S4. Ans.(a)
Sol.
Let total work = 100
'A + B + C' 3 days work = 37
'A and B' 7 day work = 63
'A + B' 1 day work = 9
'A + B' 3 day work = 27
'C' 3 day work = 37 – 27 = 10
'C' will do complete work

$= \dfrac{100 \times 3}{10} = 30$ days

Now,

A × 5 = B × 4

$\dfrac{A}{B} = \dfrac{4}{5}$

A and B one day work = 9

⇒ 'A' one day work = 4

'B' one day work = 5

A can complete work in $\dfrac{100}{4} = 25$ days

B can complete work in $\dfrac{100}{5} = 20$ days

S5. Ans.(a)

Sol.

Let speed of train A = x km/hr

Let sped of train B = y km/hr

Meeting time = 10 hr.

Relative speed $= \dfrac{650}{10}$

$= 65$ km/hr = x + y

Let train A started after 4 hr 20 min.

In 8 hr distance covered by train A and train B = 65 × 8 = 520 km

⇒ Train B covers 650 – 520 = 130 km in 4 hr 20 min

⇒ Speed of train B $= \dfrac{130}{4\frac{1}{3}}$

$= 30$ km/hr

And, speed of train A = 65 – 30 = 35 km/hr

S6. Ans.(b)

Sol. ? = 3 × 106 + 5 × 90 – 6 × 49

= 474

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S7. Ans.(c)

Sol. ? × 5 = $\dfrac{33}{100} \times 600 + \dfrac{44}{100} \times 225$

= 198 + 99

⇒ ? = 59.4

S8. Ans.(d)
Sol. ? = 115.1 + 11.11 + 11.1
= 137.31

S9. Ans.(b)
Sol. ? × 2 = 606 + 30
= 636
⇒ ? = 318

S10. Ans.(c)
Sol. ? = 169 + 289 + 529 – 576 – 216
= 195

S(11-15)

Bikes produced by Hero on Monday $= \frac{540}{3} = 180$

Let no. of bikes produced by Bajaj and Honda on Monday be x and y respectively.
So, $180 - x = y - 180$
$x + y = 360$
And $y - x = 40$
From above equation $x = 160\ and\ y = 200$
Bikes produced by Hero on Wednesday = 150+100=250
Bikes produced by Hero on Thursday $= \frac{5}{11} \times [910 - (180 + 150 + 250)]$
$= 150$
And bikes produced by Hero on Friday $= 180$
Bikes produced by Honda on Wednesday $= 220 + 80 = 300$
Bikes produced by Honda on Tuesday $= 570 - 150 - 220 = 200$
Total bikes produced on Wednesday $= 570 \times \frac{100}{76} = 750$
Bikes produced by Bajaj on Wednesday $= 750 - (250 + 300) = 200$
Bikes produced by Honda on Thursday $= \frac{5}{3} \times 150 = 250$
Bikes produced by Bajaj on Thursday $= 580 - (150 + 250) = 180$

	Hero	Bajaj	Honda	total
Monday	180	160	200	540
Tuesday	150	220	200	570
Wednesday	250	200	300	750
Thursday	150	180	250	580
Friday	180	140	200	520

Total	910	900	1150	

S11. Ans (c)

Sol. $\frac{570}{750} = 19 : 25$

S12. Ans (a)

Sol. Required percentage $= \frac{200}{900} \times 100 = \frac{200}{9} = 22\frac{2}{9}\%$

S13. Ans (e)

Sol. Required average $= \frac{1150}{5} = 230$

S14. Ans (c)

Sol. No. of bikes produced on Tuesday and Thursday is same i.e. 150

S15. Ans (c)

Sol. Bikes produced by Honda on Saturday $= 200 \times \frac{75}{100} = 150$

So, bikes produced by Hero on Saturday $= 150 \times \frac{23}{25} = 138$

So, bikes produced by Bajaj on Saturday $= 430 - 150 - 138 = 142$

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