

TIME & WORK BASED QUANTITATIVE APTITUDE PRACTICE QUESTIONS AND ANSWERS PDF WITH EXPLANATION

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Q1. A train passes a station platform in 36 seconds and a man standing on the platform in 20 seconds. If the speed of the train is 54 km/h, find the length of the platform.

- a) 240 metres
- b) 258 metres
- c) 220 metres
- d) None of these

Q2. George takes 8 hours to copy a 50 page manuscript while Sonia can copy the same manuscript in 6 hours. How many hours would it take them to copy a 100 page manuscript, if they work together ?

- a) $6\frac{6}{7}$
- b) $9\frac{5}{7}$
- c) 9
- d) 14
- e) None of these

Q3. 4 goats or 6 sheep can graze a field in 50 days. 2 goats and 3 sheep will graze it in

- a) 100 days

- b) 200 days
- c) 150 days
- d) 50 days

Q4. A can finish a work in 15 days, B in 20 days and C in 25 days. All these three worked together and earned Rs.4700. The share of C is

- a) Rs.1800
- b) Rs.1200
- c) Rs.1500
- d) Rs.2000

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Q5. If one man or two women or three boys can do a piece of work in 55 days, then one man, one woman and one boy will do it how many days?

- a) 40 days
- b) 20 days
- c) 30 days
- d) 50 days

Q6. A contractor undertook to do a piece of work in 9 days. He employed certain number of laboures but 6 of

them were absent from the very first day and the rest could finish the work in only 15 days. Find the number of men originally employed .

- a) 15
- b) 13
- c) 6
- d) 9

Q7. A does a work in 10 days and B does the same work in 15 days. In how many days they together will do the same work ?

- a) 5 days
- b) 8 days
- c) 6 days
- d) 9 days

Q8. A worker is paid Rs 56 for 35 hour in a week. Up to 40 hours, he is paid at the normal rate and on overtime, 1.5 times the normal. How many hours did he work to get Rs 88 ?

- a) 48 hours
- b) 58 hours
- c) 50 hours
- d) 55 hours
- e) 60 hours

Q9. Four taps can individually fill a cistern of water in 1h, 2h, 3h and 6h , respectively. If all the four taps are opened

simultaneously, the cistern can be filled in how many minutes?

- a) 35
- b) 20
- c) 30
- d) 40

Q10. How many men will be required to plough 100 acres of land in 10 days, if 10 men require 8 days to plough 20 acres of land?

- a) 50
- b) 30
- c) 40
- d) 60

Q11. If 5 engines consume 6 metric tonnes of coal when each is running 9 hours a day, how many metric tonnes of coal will be needed for 8 engines, each running 10 hours a day, it being given that 3 engines of the former type consume as much as 4 engines of the latter type?

- a) 8
- b) $8\frac{8}{9}$
- c) $3\frac{1}{8}$
- d) $6\frac{12}{25}$
- e) None of these

Q12. A train X starts from Meerut at 4 p.m. and reaches Ghaziabad at 5 p.m. while another train Y starts from Ghaziabad at 4 p.m. and reaches Meerut at 5.30 p.m. The two trains will cross each other at :

- a) 4.36 p.m
- b) 4.48 p.m.
- c) 4.42 p.m.
- d) 4.50 p.m.

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Q13. 18 men can earn Rs.360 in 5 days. How much money will 15 men earn in 9 days ?

- a) Rs.480
- b) Rs.600
- c) Rs.540
- d) Rs.360

Q14. A man sitting in a train which is travelling at 50 kmph observes that a goods train, travelling in opposite direction, takes 9 seconds to pass him. If the goods train is 280 m long, find its speed.

- a) 62 kmph
- b) 52 kmph
- c) 58 kmph

d) None of these

Q15. A man completes $\frac{5}{8}$ of a job in 10 days. At this rate, how many more days will it take him to finish the job?

a) 6

b) 7

c) 5

d) $7\frac{1}{2}$

e) None of these

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Answers to the above questions :

Q1. Answer: (a)

$$\text{Speed of train} = 54 \text{ km/h} = 54 \times \frac{5}{18} \text{ km/h} = 15 \text{ m/s}$$

Let the length of train = L_t m

and the length of platform = L_p m

$$\text{Now, } 15 = \frac{L_t + L_p}{36} \dots(i)$$

$$\text{and } 15 = \frac{L_t}{20}$$

$$\therefore L_t = 300 \text{ m}$$

$$\therefore \text{By (i), } \frac{300 + L_p}{36} = 15$$

$$\Rightarrow L_p = 240 \text{ m}$$

Q2. Answer: (a)

In an hour, George and Sonia together can copy

$$\frac{1}{6} + \frac{1}{8} = \frac{7}{24} \text{ of a 50-page manuscript.}$$

i.e. In an hour they together can copy $\frac{7}{48}$ of the 100-page manuscript.

i.e. They together can copy a 100-page manuscript in

$$\frac{48}{7} \text{ hours, i.e. } 6\frac{6}{7} \text{ hours.}$$

Q3. Answer: (d)

Using the formula, $\left(\frac{AND}{OR}\right)_x = \text{given number of days}$, where x is the number of days we have to divide.

Thus,

$$\left(\frac{AND}{OR}\right)_x = 50 \Rightarrow \left(\frac{2}{4} + \frac{3}{6}\right)_x = 50$$

$$\Rightarrow \left(\frac{1}{2} + \frac{1}{2}\right)_x = 50 \Rightarrow x = 50$$

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Q4. Answer: (b)

$$\text{A's one day work} = \frac{1}{15}$$

$$\text{B's one day work} = \frac{1}{20}$$

$$\text{C's one day work} = \frac{1}{25}$$

A, B and C worked together one day work

$$= \frac{1}{15} + \frac{1}{20} + \frac{1}{25}$$

$$= \frac{20 + 15 + 12}{300} = \frac{47}{300}$$

time taken to complete work by A, B and C

$$\text{working together} = \frac{300}{47}$$

$$\therefore \text{Share of C} = \frac{1}{25} \times \frac{300}{47} \times 4700 = \text{Rs.1200}$$

Q5. Answer: (c)

$$1 \text{ man} = 2 \text{ women} = 3 \text{ boys}$$

$$\therefore 1 \text{ man} + 1 \text{ woman} + 1 \text{ boy}$$

$$= 3 \text{ boys} + \frac{3}{2} \text{ boys} + 1 \text{ boy}$$

\therefore

Boys Days

$$3\uparrow \quad 55\downarrow$$

$$\frac{11}{2} \quad \times$$

$$M_1D_1 = M_2D_2$$

$$\Rightarrow 3 \times 55 = \frac{11}{2} \times D_2$$

$$D_2 = \frac{3 \times 55 \times 2}{11} = 30 \text{ days}$$

Q6. Answer: (a)

Let the number of men originally employed be x.

$$9x = 15(x - 6)$$

$$\text{or } x = 15$$

Q7. Answer: (c)

$$\text{A's 1 day's work} = \frac{1}{10} \text{ and B's 1 day's work} = \frac{1}{15}$$

$$\therefore (\text{A} + \text{B})\text{'s 1 day's work} = \left(\frac{1}{10} + \frac{1}{15}\right) = \frac{1}{6}$$

So, both together will finish the work in 6 days. **Alternate Method :-**

$$\text{A and B together finish the work in } \left(\frac{10 \times 15}{10 + 15}\right) = 6 \text{ days}$$

Q8. Answer: (c)

Let the worker worked for (40 + x) hours.

$$\text{Now, } \frac{56}{35} \times 40 + \frac{x \times 1.5 \times 56}{35} = 88 \text{ or } 2.4x = 24$$

$$\Rightarrow x = 10 \text{ hours}$$

The worker worked for (40 + 10) = 50 hours

Q9. Answer: (c)

$$\text{Required time} = \frac{1}{\frac{1}{1} + \frac{1}{2} + \frac{1}{3} + \frac{1}{6}} = \frac{6}{6 + 3 + 2 + 1}$$

$$= \frac{6}{12}h = \frac{6}{12} \times 60 \text{ min} = 30 \text{ min}$$

Q10. Answer: (c)

Here, $M_1 = 10$, $D_1 = 8$, $W_1 = 20$

$M_2 = x(\text{let})$, $D_2 = 10$, $W_2 = 100$

$$\therefore \frac{M_1 D_1}{W_1} = \frac{M_2 D_2}{W_2}$$

$$\therefore \frac{10 \times 8}{20} = \frac{x \times 10}{100} \Rightarrow x = 8 \times 5 = 40$$

Q11. Answer: (a)

Let the required quantity of coal be x metric tonnes.

More engines, More coal (Direct Proportion)

More hours per day, More work (Direct Proportion)

More rate, More coal (Direct Proportion)

Engines 5 : 8

Hours per day 9 : 10 :: 6 : x

Rate $\frac{1}{3} : \frac{1}{4}$

$$\therefore \left(5 \times 9 \times \frac{1}{3} \times x\right) = \left(8 \times 10 \times \frac{1}{4} \times 6\right)$$

$$\Leftrightarrow 15x = 120 \Leftrightarrow x = 8.$$

Q12. Answer: (a)

Suppose, the distance between Meerut and Ghaziabad is x km.

Time taken by Y to cover x km = $\frac{3}{2}$ hours.

\therefore Speed of X = x kmph, Speed of Y = $\left(\frac{2x}{3}\right)$ kmph.

Let them meet y hours after 4 p.m. Then,

$$xy + \frac{2xy}{3} = x \Rightarrow y\left(1 + \frac{2}{3}\right) = 1 \Rightarrow y = \frac{3}{5} \text{ hours}$$

$$= \left(\frac{3}{5} \times 60\right) \text{ min} = 36 \text{ min.}$$

So, the two trains meet at 4.36 p.m.

Q13. Answer: (c)

$$\frac{M_1 D_1}{W_1} = \frac{M_2 D_2}{W_2}$$

$$\Rightarrow \text{Here } M_1 = 18, D_1 = 5, W_1 = \text{Rs.}360$$

$$M_2 = 15, D_2 = 9, W_2 = ?$$

$$\Rightarrow 18 \times 5 \times W_2 = 15 \times 9 \times 360$$

$$\therefore W_2 = \frac{15 \times 9 \times 360}{18 \times 5} = \text{Rs.} 540$$

Q14. Answer: (a)

$$\text{Relative speed} = \left(\frac{280}{9}\right) \text{ m/sec} = \left(\frac{280}{9} \times \frac{18}{5}\right) \text{ kmph} = 112 \text{ kmph.}$$

$$\therefore \text{Speed of goods train} = (112 - 50) \text{ kmph} = 62 \text{ kmph.}$$

Q15. Answer: (a)

$$\text{Work done} = \frac{5}{8}$$

$$\text{Balance work} = \left(1 - \frac{5}{8}\right) = \frac{3}{8}$$

Less work, Less days (Direct Proportion)

Let the required number of days be x .

$$\text{Then, } \frac{5}{8} : \frac{3}{8} :: 10 : x \Leftrightarrow \frac{5}{8} \times x = \frac{3}{8} \times 10 \Leftrightarrow x = \left(\frac{3}{8} \times 10 \times \frac{8}{5} \right) = 6.$$