Numerical Ability Question & Answers

- 1) In each of the following questions a number series is given with one term missing. Choose the correct alternative that will continue the same pattern and fill in the blank spaces.
- 2, 7, 14, 23, ?, 47
- A. 31
- B. 28
- C. 34
- D. 38

Answer: C.

The given sequence is +5, +7, +9, ——

ie.
$$2+5=7$$
, $7+7=14$, $14+9=23$

Missing Number = 23 + 11 = 34.

- 2) 4, 6, 12, 14, 28, 30, ?
- A. 32
- B. 64
- C. 62
- D. 60

Answer: D.

The given sequence is a combination of two series 4, 12, 28, and 6, 14, 30, The pattern is +8, +16, +32. So, the missing number =(28+32)=60

- 3) 4, 9, 13, 22, 35, ?
- A. 57
- B. 70
- C. 63

D. 75

Answer: A.

Sum of two consecutive numbers of the series gives the next number.

4) 11, 13, 17, 19, 23, 29, 31, 37, 41, ?

A. 43

B. 47

C. 51

D. 53

Answer: A.

The series consists of prime numbers.

5) 1	5, 31, 63, 127, 255, ?	
A.	513	
В.	511	
C.	523	
D.	517	
Ans	wer: B.	
Eac	h number is double of the preceding one plus 1.	
6) Walking at the rate of 4kmph a man cover certain distance in 2hr 45 min. Running at a speed of 16.5 kmph the man will cover the same distance in.		
A.	12 min	
В.	25 min	
C.	40 min	

D.	48 min
Ans	swer : C.

Distance = Speed * time

$$4*11/4 = 11$$
km

New Speed = 16.5 kmph

Therefore time = D/S = 11/16.5 = 40min

- 7) A train covers a distance in 50 min, if it runs at a speed of 48kmph on an average. The speed at which the train must run to reduce the time of journey to 40min will be https://www.freshersnow.com/previous-year-question-papers/
- A. 45 min
- B. 60 min
- C. 55 min
- D. 70 min

Answer: B.

Time =
$$50/60 \text{ hr} = 5/6 \text{hr}$$

Speed =
$$48mph$$

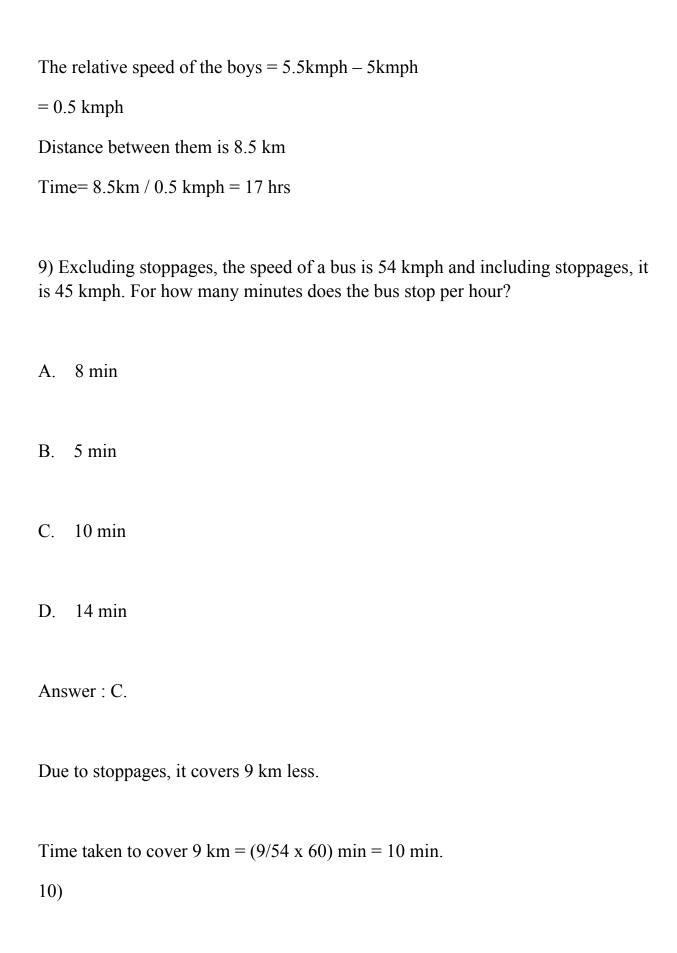
distance =
$$S*T = 48 * 5/6 = 40$$
km

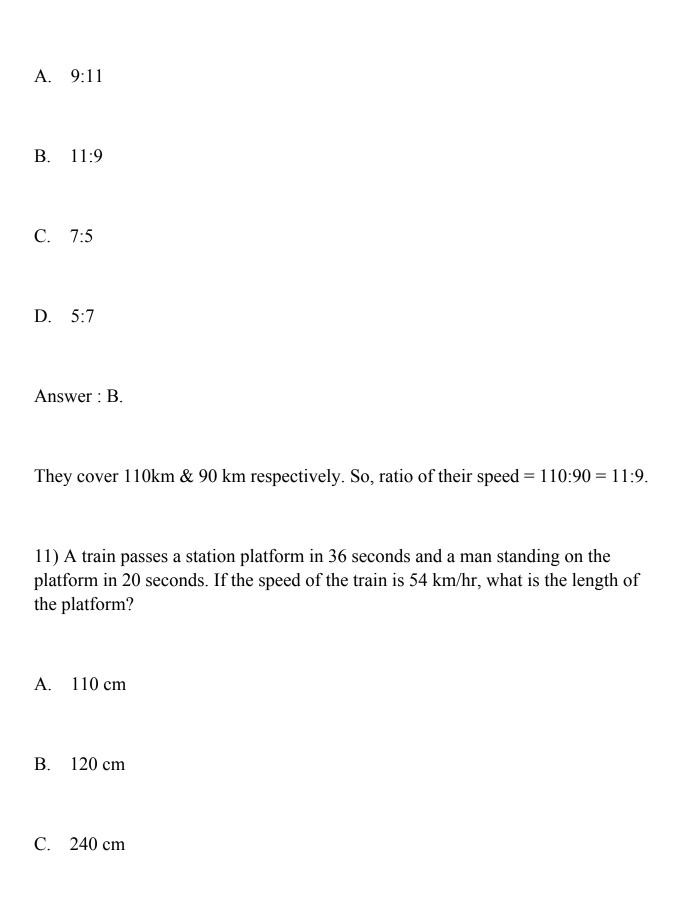
$$time = 40/60hr = 2/3hr$$

New speed =
$$40*3/2$$
 kmph = 60 kmph

- 8) Two persons starting from the same place walk at a rate of 5kmph and 5.5kmph respectively. What time will they take to be 8.5km apart, if they walk in the same direction?
- A. 17 hrs
- B. 22 hrs
- C. 25 hrs
- D. 12 hrs

Answer: A.





D. 260 cm
Answer : C.
12) A goods train runs at the speed of 72 km/hr and crosses a 250 m long platform in 26 seconds. What is the length of the goods train?
A. 240m
B. 250m
C. 260m
D. 270m
Answer : D.
13) The ratio between the speeds of two trains is 7 : 8. If the second train runs 400 kms in 4 hours, then the speed of the first train is
A. 87.5 km/h

B.	78.0 km/h
C.	65.5 km/h
D.	58.0 km/h
Ans	wer: A.
	In what time will a train 100 meres long cross an electric pole, if its speed is km/hr
A.	12.5 s
B.	8.5 s
C.	10.5 s
D.	2.5 s
Ans	wer: D.

15) A train 280m long, running with a speed of 63kmhr will pass a pole in		
A.	12 s	
B.	14 s	
C.	16 s	
D.	18 s	
Ans	swer : C.	
16) X can do ¼ of a work in 10 days, Y can do 40% of work in 40 days and Z can do 1/3 of work in 13 days. Who will complete the work first?		
A.	X	
В.	Y	
C.	Z	
D.	None of the above.	

Answer : C.

Whole work will be done by X in 10*4 = 40 days.

Whole work will be done by Y in (40*100/40) = 100 days.

Whole work will be done by Z in (13*3) = 39 days

Therefore, Z will complete the work first.

17) A can do a piece of work n 7 days of 9 hours each and B alone can do it in 6 days of 7 hours each. How long will they take to do it working together 8 2/5 hours a day?

A. 3

B. 4

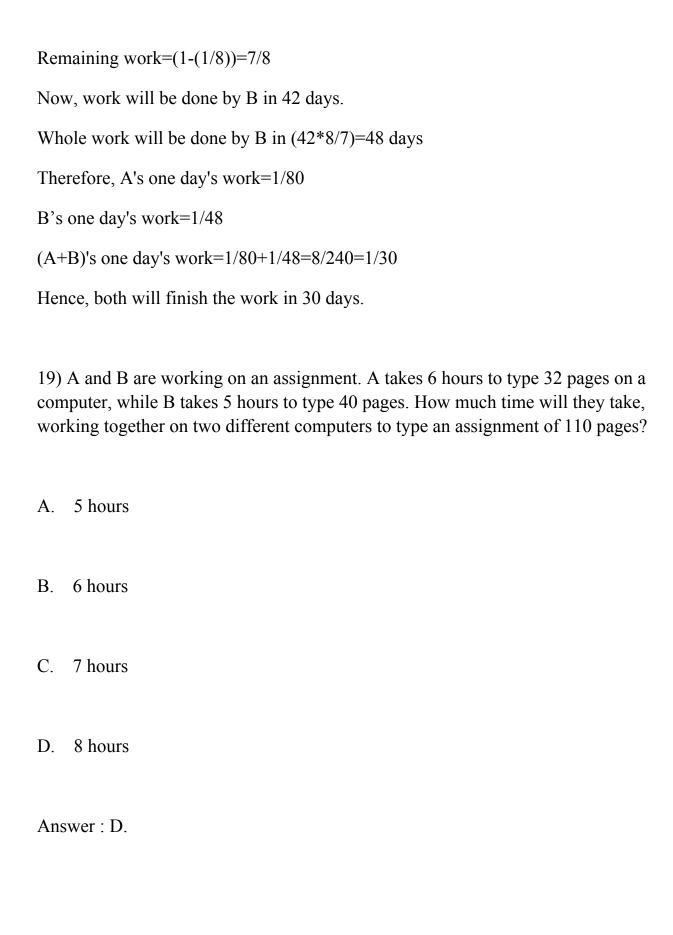
C. 5

D. 6

Answer: A.

A can complete the work in (7*9) = 63 days B can complete the work in (6*7) = 42 days --> A's one hour's work = 1/63 and B's one hour work = 1/42. (A+B)'s one hour work = 1/63+1/42 = 5/126Therefore, Both can finish the work in 126/5 hours. Number of days of 8 2/5 hours each = (126*5/(5*42)) = 3 days 18) A can do a piece of work in 80 days. He works at it for 10 days & then B alone finishes the remaining work in 42 days. In how much time will A and B, working together, finish the work? A. 23 days B. 25 days C. 30 days D. 33 days Answer: C.

Work done by A in 10 days=10/80=1/8



Number of pages typed by A in one hour=32/6=16/3 Number of pages typed by B in one hour=40/5=8 Number of pages typed by both in one hour=((16/3)+8)=40/3Time taken by both to type 110 pages=110*3/40=8 hours. 20) A can finish a work in 18 days and B 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. 1/5 B. 1/6 C. 1/7 D. 1/8 Answer: B. Given that B alone can complete the same work in days = half the time taken by A = 9 daysA's one day work = 1/18

B's one day work = 1/9

(A+B)'s one day work = 1/18+1/9 = 1/6