NUMERICAL APTITUDE PRACTICE SET

100 QUESTIONS WITH ANSWERS

1, 9, 17, 33, 49, 73, ?

(A)78

(B)85

(C)91

(D)97

ANSWER: 97

10 cats caught 10 rats in 10 seconds. How many cats are required to catch 100 rats in 100 seconds

(A)100

(B)10

(C)20

(D)50

ANSWER: 10

10, 14, 26, 42, 70, ?

(A)86

(B)98

(C)114

(D)126

ANSWER: 114

12 men can complete a piece of work in 4 days, while 15 women can complete the same work in 4 days. 6 men start working on the job and after working for 2 days, all of them stopped working. How many women should be put on the job to complete the remaining work, if it is to be completed in 3 days?

(A)16

(B)15

(C)18

(D)19

ANSWER: 15

12 men can complete a work in 18 days. Six days after they started working, 4 more men joined them. How many days will all of them together complete the remaining work?

(A)10 days

(B)8 days

(C)11 days

(D)9 days

ANSWER: 9 days

21, 9, 21, 11, 21, 13, 21, ?

(A)15

(B)17

(C)23

(D)25

ANSWER: 15

3, 7, 15, 31, 63, ?

(A)89

(B)127

(C)142

(D)158

ANSWER: 127

4 men & 6 women can complete a work in 8 days, while 3 men and 7 women can complete it in 10 days. In how many days will 10 women complete it?

(A)35 days

(B)40 days

Crack it

(C)30 days

(D)25 days

ANSWER: 40 days

42 oranges are distributed among some boys and girls. If each boy gets 3, then each girl gets 6. But if each boy gets 6 and each girl gets 3, it needs 6 more. The number of girls is

(A)10

(B)8

(C)6

(D)4

ANSWER: 4

A 270 metres long train running at the speed of 120 kmph crosses another train running in opposite direction at the speed of 80 kmph in 9 seconds. What is the length of the other train?

(A)230 m

(B)245 m

(C)260 m

(D)275 m

ANSWER: 230 m

A and B and C together can finish a piece of work in 4 days. A alone can do it in 12 days, and B in 18 days. Then, C alone can do it in

(A)8 days

(B)7 days

(C)9 days

(D)10 days

ANSWER: 9 days

A and B are two taps which can fill a tank individually in 10 minutes and 20 minutes respectively. However, there is a leakage at the bottom which can empty a filled tank in 40 minutes. If the tank is empty initially, how much time will both the taps take to fill the tank (leakage is still there)?

Crack it

(A)10 minutes

(B)5 minutes

(C)7 minutes

(D)8 minutes

ANSWER: 8 minutes

A and B can do a piece of work in 30 days, while B and C can do the same work in 24 days and C and A in 20 day. They all work together for 10 days, after which B and C leave. How many days more will A take to finish the work?

(A)20 days

(B)19 days

(C)18 days

(D)22 days

ANSWER: 18 days

A and B can together finish a work in 30 days. They workd on it for 20 days, and then B left. The remaining work was done by A alone in 20 more days A alone can finish the work in

(A)62 days

(B)58 days

(C)56 days

(D)60 days

ANSWER: 60 days

A and B together can complete a work in 12 days. A alone can complete it in 20 days. If B does the work only for half a day daily, then in how many days A and B together will complete the work?

(A)17 days

(B)18 days

(C)15 days

(D)16 days

ANSWER: 15 days

Crack it

A can contains a mixture of two liquids A and B in the ratio 7:5. When 9 litres of mixture are drawn off and the can is filled with B, the ratio of A and B becomes 7:9. How many litres of liquid A was contained by the can initially?

(A) 21

(B) 19

(C) 18

(D) 17

ANSWER: 21

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

(A) 9 3/8 days

(B) 8 2/3 days

(C) 8 3/5 days

(D) 9 3/5 days

ANSWER: 9 3/8 days

A can do a certain work in 25 days which B alone can do in 20 days. A stared the work and was joined by B after 10 days. The work was completed in

(A) 18 2/3 days

(B) 16 2/3 days

(C) 14 1/3 days

(D) 15 1/3 days

ANSWER: 16 2/3 days

A can do a job in 16 days, and B can do the same job in 12 days. With the help of C, they did the job in 4 days. Then, C alone can do the job in

(A) 12 3/5 days

(B) 8 3/5 days

(C) 10 3/5 days

(D)9 3/5 days

ANSWER: 9 3/5 days

A can do a piece of work in 7 days of 9 hours each, and B 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)2 2/3 days

(B)2 days

(C)3 1/3 days

(D)3 days

ANSWER: 3 days

A can do piece of work in 30 days while B alone can do it in 40 days. In how many days can A and B working together do it?

(A)17 1/7 days

(B)15 2/3 days

(C)15 2/7 days

(D)17 2/7 days

ANSWER: 17 1/7 days

A can type 10 pages in 5 minutes. B can type 5 pages in 10 minutes. Working together, how many pages can they type in 30 minutes?

(A)15

(B)25

(C)65

(D)75

ANSWER: 75

A candidate appearing for an examination has to secure 40% marks to pass paper I. But he secured only 40 marks and failed by 20 marks. What is the maximum mark for paper I?

(A)100

(B)150

(C)180

(D)200

ANSWER: 150

A clock gains 5 minutes in one hour. Therefore, the angle traversed by the minute hand in one minute is

(A)360°

(B)390°

(C)390.5°

(D)None of these

ANSWER: 390°

A coin is placed on a plain paper. How many coins of the same size can be placed around it so that each of the coins touches its adjacent ones ?

(A)4

(B)5

(C)6

(D)7

ANSWER: 6

A does half as much work as B in three fourth of the time. If together they take 18 days to complete the work, how much time shall B take to do it ?

(A)32 days

(B)28 days

(C)30 days

(D)35 days

ANSWER: 30 days

A father is 30 years older than his son. He will be three times as old as his son after 5 years. What is the father's present age?

(A)35

(B)45

(C)40

(D)30

ANSWER: 40

A goat is tied to one corner of a square plot of side 12m by a rope 7m long. Find the area it can graze?

(A)155 sq.m

(B)19.25 sq.m

(C)144 sq.m

(D)38.5 sq.m

ANSWER: 38.5 sq.m

A hawker purchased oranges at the rate of 4 oranges per rupee, but he sells at the rate of 5 oranges per rupee. His loss is:

(A)0.25

(B)0.5

(C)0.15

(D)0.2

ANSWER: 0.2

A is twice as good workman as B, and together they complete a work in 15 days. In how many days can the work be complete by B alone?

(A)25 days

(B)45 days

(C)35 days

(D)40 days

ANSWER: 45 days

A is two years older than B who is twice as old as C. If the total of the ages of A, B and C be 27, the how old is B?

(A)9

(B)10

(C)11

(D)12

ANSWER: 11

A man on tour travels first 160 km at 64 km/hr and the next 160 km at 80 km/hr. The average speed for the first 320 km of the tour is

(A)71.11 km/hr

(B)36 Km/hr

(C)71 Km/hr

(D)36.33 Km/hr

ANSWER: 71.11 km/hr

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

(A)50 kmph

(B)58 kmph

(C)62 kmph

(D)65 kmph

ANSWER: 62 kmph

A man wants to reach a window which is 40 feet above the ground. The distance from the foot of the ladder to the wall is 9 feet. How long should the ladder be ?

(A)9 feet

(B)81 feet

(C)41 feet

(D)49 feet

ANSWER: 41 feet

A man's investment doubles in every 5 years. If he invested Rs. 5,000 in each of the years 1990, 1995, 2000 and 2005, then what was the total amount received by him in 2010 ?

(A)Rs. 1,40,000

(B)Rs. 30,000

(C)Rs. 70,000

(D)Rs. 1,50,000

ANSWER: Rs. 1,50,000

A motorbike race was scheduled to start at 4.10p

(A)5:30am

(B)4:30pm

(C)5:40pm

(D)5:50pm

ANSWER: 5:50pm

A person lost 10% when he sold goods at Rs.153. For how much should he sell them to gain 20%?

(A)Rs.240

(B)Rs.204

(C)Rs.250

(D)Rs.232

ANSWER: Rs.204

A school has enough food for 400 children for 12 days. How long will the food last if 80 more children join them?

(A)7 days

(B)8 days

(C)9 days

(D)10 days

ANSWER: 10 days

A shop offers 10 percent discount on the purchase of any article. It also offers an additional 12 percent discount if the payment is made in cash. If the original price of the item is Rs. 250, then what is its actual price if paid in cash ?

(A)Rs. 220

(B)Rs. 195

(C)Rs. 198

(D)None of these

ANSWER: Rs. 198

A shopkeeper purchased 200 bulbs for Rs. 10 each. However, 5 bulbs were fused and had to be thrown away. The remaining were sold at Rs. 12 each. What will be the percentage profit?

(A)13

(B)15

(C)17

(D)22

ANSWER: 17

A square garden has fourteen posts along each side at equal interval. Find how many posts are there in all four sides.

(A)56

(B)44

(C)52

(D)60

ANSWER: 52

A started a business investing Rs. 45,000. After 3 months, B joined him with a capital of Rs. 60,000. After another 6 months, C joined them with a capital of Rs. 90,000. At the end of the year, they made a profit of Rs. 16,500. What is A's share of profit ?

(A)Rs. 5,500

(B)Rs. 6,500

(C)Rs. 6,900

(D)Rs. 5,900

ANSWER: Rs. 5,500

A student is ranked 13th from right and 8th from left. How many students are there in total?

(A)18

(B)19

(C)20

(D)21

ANSWER: 20

A train 150 m long is running at a speed of 68 kmph. How long does it take to pass a man who is running at 8 kmph in the same direction as the train?

(A)5 sec

(B)9 sec

(C)12 sec

(D)15 sec

ANSWER: 9 sec

A train 220 m long is running with a speed of 59 kmph. In what time will it pass a man who is running at 7 kmph in the direction opposite to that in which the train is going?

(A)7 sec

(B)8 sec

(C)10 sec

(D)12 sec

ANSWER: 12 sec

A train is moving at a speed of 132 km/hr. If the length of the train is 110 metres, how long will it take to cross a railway platform 165 metres long?

(A)7½ sec

(B)10 sec

(C)12 ½ sec

(D)15 sec

ANSWER: 7½ sec

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/hr, what is the length of the platform?

(A)180 m

(B)240 m

(C)260 m

(D)280 m

ANSWER: 240 m

A two digit number is three times the sum of its digits. If 45 is added to it, the digits are reversed. The number is

(A)23

(B)32

(C)27

(D)72

ANSWER: 27

A walks from P to Q @ 3 km/hr and from Q to P @ 6 km/hr. What is his average speed ?

(A)4.5 km/hr

(B)5 km/hr

(C)5.5 km/hr

(D)4 km/hr

ANSWER: 4 km/hr

A works twice as fast as B. If B can complete a work in 12 days independently, the number of days in which A and B can together finish the work is

(A)4 days

(B)3 days

(C)6 days

(D)5 days

ANSWER: 4 days

A, B and C can do a piece of work in 15 days, 10 days and 6 days respectively. How long will they take to do it, if all the three work together?

(A)7 days

(B)5 days

(C)3 days

(D)2.5 days

ANSWER: 3 days

A,B and C are employed to do a piece of work for Rs.529. A and C are supposed to finish 19/23 of the work together. How much shall be paid to B?

(A)Rs.92

(B)Rs.112

(C)Rs.98

(D)Rs.86

ANSWER: Rs.92

At what rate of simple interest per annum an amount will be doubled in 10 years?

(A)0.1

(B)0.075

(C)0.15

(D)0.16

ANSWER: 0.1

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.1) 1, 6, 13, 22, 33, ?

(A)35

(B)46

(C)38

(D)49

ANSWER: 46

Every time a man hits the target he gets one rupee and every time he misses the target he has to pay the rupee. He is allowed to try 100 times and gets an amount of Rs. 30. How many times did he hit the target?

(A)60

(B)65

(C)70

(D)75

ANSWER: 65

Find the area of a right angled triangle whose hypotenuse is 10 cm and base 8 cm.

(A)34 sq.cm

(B)36 sq.cm

(C)24 sq.cm

(D)48 sq.cm

ANSWER: 24 sq.cm

Find the missing number in the following series:5184   1728   576   192   ?

(A)32

(B)44

(C)64

(D)120

ANSWER: 64

Find the missing number in the following series:6 120 12 108 24 ? 48 84

(A)60

(B)74

(C)96

(D)108

ANSWER: 96

Find the missing number in the following series:89   75   63   53   45   ?

(A)35

(B)37

(C)39

(D)43

ANSWER: 39

Find the missing numbers and letters in the following series:C 81 E 64 ? 49 I ? K

(A)G,36

(B)F,36

(C)G,32

(D)H,24

ANSWER: G,36

Find the next term in the series: 3, 6, 9, 18, 27, 54, …

(A)81

(B)69

(C)108

(D)72

ANSWER: 81

Find the ratio of purchase price and sell price if there is loss of 12 1/2 %.

(A)0.297222222222222

(B)0.338194444444444

(C)0.100694444444444

(D)1.04305555555556

ANSWER: 0.338194444444444

How many gold coins are there in a jar of 88 coins, if there are 1/3 as many silver coins as gold coins?

(A)22

(B)33

(C)44

(D)66

ANSWER: 66

If 30% of a number is 12.6, find the number?

(A)45

(B)38

(C)40

(D)42

ANSWER: 42

If A : B = 3 : 4, C : B = 5 : 4, C : D = 10 : 9, then A : B : C : D is

(A)8 : 6 : 9 : 10

(B)8 : 6 : 10 : 9

(C)6 : 8 : 10 : 9

(D)6 : 8 : 9 : 10

ANSWER: 6 : 8 : 10 : 9

If p > q and r < o (where '>' stands for greater than and '<' stands for less than), then which is true ?

(A)pr < qr

(B)p - r < q - r

(C)p + r < q + r

(D)None is true

ANSWER: pr < qr

If the area of a circle is 75.44 square cm then what is the circumference of the circle?

(A)40.2 cm

(B)28.9 cm

(C)29.2 cm

(D)30.8 cm

ANSWER: 30.8 cm

If the fractions 8/5, 7/2, 9/5, 5/4, 4/5 are arranged in descending order of their values, which one will be fourth?

(A)42252

(B)42099

(C)42128

(D)42221

ANSWER: 42128

If the Republic Day of India in 1980 falls on Saturday, X was born on March 3, 1980 and Y is older to X by four days, then Y's birthday fell on

(A)Thursday

(B)Friday

(C)Wednesday

(D)None of these

ANSWER: Thursday

In a class of 100 students, 50 students passed in Mathematics and 70 passed in English, 5 students failed in both Mathematics and English. How many students passed in both the subjects?

(A)50

(B)40

(C)35

(D)25

ANSWER: 25

In a jar of lollies there are 6 more orange lollies than green ones and there is only one red lolly. If there are 47 lollies in the jar, how many orange ones are there?

(A)20

(B)26

(C)40

(D)46

ANSWER: 26

In an examination, a studnet was asked to find 3/14 of a certain number. By mistake, he found 3/4 of it. His answer was 150 more than the correct answer. Find the given number.

(A)190

(B)250

(C)280

(D)350

ANSWER: 280

It takes one minute to fill 3/7 th of a vessel. What is the time taken in minutes to fill the whole of the vessel?

(A)42097

(B)42067

(C)42188

(D)42065

ANSWER: 42188

Pipe A can fill a tank in 20 minutes and Pipe B in 30 mins and Pipe C can empty the same in 40 mins.If all of them work together, find the time taken to fill the tank?

Crack it

(A)15 1/7 minutes

(B)12 1/7 minutes

(C)17 1/7 minutes

(D)10 1/7 minutes

ANSWER: 17 1/7 minutes

Q is as much younger than R as he is older than T. If the sum of the ages of R and T is 50 years, what is the difference between R and Q's age?

(A)1 year

(B)2 years

(C)25 years

(D)Data insufficient

ANSWER: Data insufficient

ree numbers are in the ratio of 3: 4 :5 respectively. If the sum of the first and third numbers is more than the second number by 52, then which will be the largest number?

(A)52

(B)65

(C)67

(D)72

ANSWER: 65

Speed of a boat in still water is 9 km/hr. It goes 12 km down stream and comes back to the starting point in three hours.What is the speed of water in the stream?

(A)3.5 km/hr

(B)3 km/hr

(C)5 km/hr

(D)5.5 km/hr

ANSWER: 3 km/hr

The length of a rectangular field is thrice its breadth. If the cost of cultivating the field at Rs. 367.20 per square meter is Rs. 27,540, then what is the perimeter of the rectangle?

(A)47m

(B)39m

(C)52m

(D)40m

ANSWER: 40m

The most busy junction as shown in the previous diagram is

(A)X

(B)Y

(C)Z

(D)O

ANSWER: O

The Olympic record time for running the endurance event was 4 hours and 40 minutes. Rahul recently broke that record, running a time of 3 hours and 20 minutes. What fraction of the original record time was Rahul's time?

(A)42133

(B)42131

(C)42164

(D)42162

ANSWER: 42131

The perimeter of a rectangular field is 480 meters and the ratio between the length and breadth is 5:3. The area of the field is

(A)11,500 m2

(B)12,500 m2

(C)13,500 m2

(D)14,500 m2

ANSWER: 13,500 m2

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/hr

(B)86.5 km/hr

(C)85.5 km/hr

(D)84.5 km/hr

ANSWER: 87.5 km/hr

The ratio of daily wages of two workers is 4 : 3 and one gets daily Rs 9 more than the other, what are their daily wages?

(A)Rs 80 and Rs 60

(B)Rs 60 and Rs 45

(C)Rs 36 and Rs 27

(D)Rs 32 and Rs 24

ANSWER: Rs 36 and Rs 27

The sum of the digits of a two digit number is 12. If the new number formed by reversing the digits is greater than the original number by 54, then what will be the original number?

(A)93

(B)28

(C)48

(D)39

ANSWER: 39

The sum of the present age of the father and his daughter is 42 years. 7 years later, the father will be 3 times old than the daughter. The present age of the father is

(A)32

(B)28

(C)35

Crack it

(D)33

ANSWER: 35

There are 20 students with an average height of 105 cms in a class. Then 10 students with an average height of 120 cms join the class. What will be the average height of the class now?

(A)100 cms

(B)110 cms

(C)120 cms

(D)130 cms

ANSWER: 110 cms

Three years ago the average age of A and B was 18 years. If C joins them today, the average becomes 22 years. How old is C now?

(A)27

(B)24

(C)30

(D)28

ANSWER: 24

Two identical bottles A and B of sweet drinks contain sugar such that 30% of sugar in A is equal to 40% sugar in B. The ratio of sugar in the two bottles is

(A)0.16875

(B)0.127777777777778

(C)0.500694444444444

(D)0.05

ANSWER: 0.16875

Two persons A and B get the same salary. Their basic pays are different. Their allowances are 65% and 80% of their basic pays respectively. What is the ratio of their basic pays ?

(A)0.295138888888889

(B)0.71875

Crack it

(C)0.465277777777778

(D)0.507638888888889

ANSWER: 0.507638888888889

Two trains 140 m and 160 m long run at the speed of 60 km/hr and 40 km/hr respectively in opposite directions on parallel tracks. The time (in seconds) which they take to cross each other, is:

(A)10.8 sec

(B)9.5 sec

(C)7.4 sec

(D)8.9 sec

ANSWER: 10.8 sec

Two trains are running in opposite directions with the same speed. If the length of each train is 120 metres and they cross each other in 12 seconds, then the speed of each train (in km/hr) is:

(A)18 km/hr

(B)26 km/hr

(C)36 km/hr

(D)42 km/hr

ANSWER: 36 km/hr

Two trains of equal lengths take 10 seconds and 15 seconds respectively to cross a telegraph post. If the length of each train be 120 metres, in what time (in seconds) will they cross each other travelling in opposite direction?

(A)8 sec

(B)12 sec

(C)15 sec

(D)10 sec

ANSWER: 12 sec

Two trains of equal lengths take 10 seconds and 15 seconds respectively to cross a telegraph post. If the length of each train be 120 metres, in what time will they cross each other travelling in opposite direction?

Crack it

(A) 9 s

(B) 10 s

(C) 11 s

(D) 12 s

ANSWER: 12 s

Water is filled in a cylindrical vessel in such a way that its volume doubles after every five minutes. If it takes 30 minutes for the vessel to be full, then the vessel will be one fourth full in

(A) 20 minutes

(B) 25 minutes

(C) 15 minutes

(D) 10 minutes

ANSWER: 20 minutes

What is 50% of 40% of Rs. 3,450?

(A) Rs. 690

(B) Rs. 580

(C) Rs. 670

(D) Rs. 570

ANSWER: Rs. 690

What is the next term in the series : 25, 34, 52, 79, 115, ?

(A) 160

(B) 140

(C) 153

(D) 190

ANSWER: 160

What is the ratio of 12 minute to 1 hour ?

(A) 42038

Crack it

(B)42067

(C)42009

(D)42008

ANSWER: 42009

What is the sum of two consecutive even numbers, the difference of whose squares is 84?

(A)32

(B)34

(C)38

(D)42

ANSWER: 42

What number must be added to 6, 16 and 8 to get an average of 13?

(A)22

(B)25

(C)20

(D)18

ANSWER: 22

When you reverse the digits of age of father, you will get the age of son. one year ago the age of father was twice that of son's age. what are the current ages of father and son?

(A)73 and 37

(B)45 and 54

(C)31 and 13

(D)24 and 42

ANSWER: 73 and 37