

## Basic Math and I.Q Solved MCQs for CSS, PMS, NTS

and all other Competitive exams

**1**  $12 \div .012 = ?$ 

- (a) .0144                      **(b) .00144 (Correct)**  
(c) .144                        (d) .000144

**2** The Square root of 169 is :-

- (a) 43                            **(b) 13 (Correct)**  
(c) 84                            (d) 169

**3** What comes next in the following series? 64, 48, 36, 34 .....

- (a) 30                            (b) 31  
**(c) 32 (Correct)**                (d) 33

**4** If 5 men can manufacture 27 baskets in an hour, how many baskets would 15 men manufacture in 40 minutes?

- (a) 27                            (b) 35  
(c) 40                            **(d) 54 (Correct)**

**The zoo had some lions and some parrots. The supervisor counted 15 heads and 50 legs.**

- (a) 9                              **(b) 10 (Correct)**  
(c) 12                            (d) 13

**6** What comes next in the series? 64, 48, 40, 36, 34, ...

- (a) 33 (Correct)**                (b) 32  
(c) 31                            (d) 30

**7** Which number can replace both question marks?  $2/? = ?/50$ .

- (a) 5                              **(b) 10 (Correct)**  
(c) 25                            (d) 100

**8**  $(5*7)/(14 * 10) = ?$ 

- (a) 1/4 (Correct)**                (b) 50/98  
(c) 35/140                        (d) 6

**9 The Square root of 729 is :-**

- (a) 33 (b) **27 (Correct)**  
 (c) 37 (d) 43

**10 If 15 men can manufacture 27 baskets in an hour, how many baskets would 45 men can manufacture in 40 minutes?**

- (a) 27 (b) 35  
 (c) 40 (d) **54 (Correct)**

**11 Insert the missing number:**

**172 84 40 18**

- (a) **7 (Correct)** (b) 10  
 (c) 12 (d) 16

**12 20 men can construct a building in 40 days. How long will it take 10 men to do this work?**

- (a) 50 days (b) 60 days  
 (c) 70 days (d) **80 days (Correct)**

**13 Riaz can do a piece of work in 10 days and B can do it in 15 days. The number of days required by them to finish it, working together is:**

- (a) 8 (b) 7  
 (c) **6 (Correct)** (d) 4

**14 A carton contains 10 boxes, each box containing one dozen cubes. How many cartons are needed to fill 960 cubes?**

- (a) 7 (b) 8  
 (c) 9 (d) 12

**15 16 men build a house in 10 days. How much time will it take 8 men to do this work?**

- (a) 25 days (b) **20 days (Correct)**  
 (c) 30 days (d) 32 days

**16 A man pays 10% of his income for his income tax. If his income tax amounts to Rs. 1500, what is his income?**

- (a) Rs. 13000 (b) **Rs. 15000 (Correct)**  
 (c) Rs. 17000 (d) Rs. 19000

**17 A man is 5 times as old as his son. 2 years ago the sum of the squares of their ages was 114. Find the present age of son.**

- (a) **7 years (Correct)** (b) 9 years  
 (c) 8 years (d)  $8\frac{1}{2}$  years

**18 The number, whose 13% is 52, is**

- (a) 300 (b) **400 (Correct)**  
 (c) 500 (d) 900

**19 Naeem Ahmed spends Rs.400 in getting a good table and sells it at Rs.600. Find the percentage of profit?**

- (a) 90% (b) 45%  
 (c) **50% (Correct)** (d) 80%

**20 A man saves Rs.500 which is 15% of his annual income. How much does he earn in one year?**

- (a) 3542.50 (b) **3333.33 (Correct)**  
 (c) 3132.30 (d) 3075.75

**21 Aslam Khan bought a TV Rs.8000 and sold it Rs.7000. How much loss did he get?**

- (a) **Rs.1000 (Correct)** (b) Rs.2000  
 (c) Rs.3000 (d) Rs.4000

**22 Which number will come next?**

**3, 5, 7, 10, 12, 14, 24, 26, \_\_\_\_\_**

- (a) 52 (b) 30  
 (c) **28 (Correct)** (d) 48

**23 Twelve men take 6 hours to finish a piece of work. After the 12 men have worked for 1 hour, the contractor decides to call in 8 more men. How many more hours would 20 men take to complete the remaining work?**

- (a) 2 (b) **3 (Correct)**  
 (c) 4 (d) 5

**24 If a car is sold for Rs. 50000 the profit is 17 percent, what would be profit percentage if sold for Rs. 47000.**

- (a) 14.85 % (b) **15.98 % (Correct)**  
 (c) 16.20 % (d) 14.50 %

**25 Saeed purchased a plot for Rs. 8,000. He sells the plot to Mudassar at a profit of 20%. Mudassar in turn sells that plot to Rehman at a loss of 20%. The plot costs Rehman.**

- (a) Rs. 12,000 (b) Rs. 10,000

(c) Rs. 8670                      **(d) Rs. 7680 (Correct)**

**26 A's mother is twice as old as A's brother. A is 6 years younger than his brother but 4 years older than his sister. If A's sister is 15 his mother's age is:**

(a) 40                                      (b) 45  
 (c) 42                                      **(d) 50 (Correct)**

**27 Which one number will complete the following number series?**

**3, 6, 15, \_\_\_\_\_, 123, 366**

(a) 34                                      (b) 59  
**(c) 42 (Correct)**                      (d) 60

**28 Rashid bought a shirt for Rs.350 and sold it Rs.300. How much loss did he get?**

(a) Rs.40                                  **(b) Rs.50 (Correct)**  
 (c) Rs.20                                  (d) Rs.80

**29 Naveed bought a practical copy Rs.60 and sold it Rs.40. How much loss did he get?**

(a) Rs.600                                **(b) Rs.60 (Correct)**  
 (c) Rs.40                                  (d) Rs.20

**30 The number, whose 17% is 51, is**

(a) 200                                      (b) 100  
**(c) 300 (Correct)**                      (d) 210

**31 A car washer can wash 8 cars in 18 minutes. At this rate how many cars can be wash, in three hours?**

(a) 13                                        (b) 40  
**(c) 80 (Correct)**                      (d) 125

**32 Ahmed spend Rs.44,000 to get a car and sells it at Rs.48,000. Find its percentage of profit?**

(a) 12%                                      **(b) 9.09% (Correct)**  
 (c) 14%                                      (d) 80%

**33 Akbar bought a sweater for Rs.200 and sold it Rs.250. How much profit did Akbar get?**

(a) Rs.40                                      (b) Rs.20  
 (c) Rs.80                                      **(d) Rs.50 (Correct)**

**34 The number, whose 20% is 100, is**

(a) 400                                        **(b) 500 (Correct)**

- (c) 600                      (d) 700

**35 Salaam bought a pair of shoes for Rs.300 and sold it Rs.370. How much profit did Salaam get?**

- (a) Rs.80                      **(b) Rs.70 (Correct)**  
 (c) Rs.75                      (d) Rs.20

**36 The bridge is completed in 45 days by 105 men. How long it will take 90 men to do the work?**

- (a) 68.7 days                  (b) 61 days  
**(c) 52 ½ days (Correct)**      (d) 60 days

**37 If 40 men build 4 buildings in 12 months, how many men would be required to build 6 houses in 4 months?**

- (a) 114 men                  **(b) 180 men (Correct)**  
 (c) 140 men                  (d) 160 men

**38 If 80 men dug 4 holes in 12 months, how many men would be required to dig 6 holes in 4 months?**

- (a) 140 men                  (b) 410 men  
**(c) 360 men (Correct)**      (d) 40 men

**39 Which number will come next?**

212 179 146 113, \_\_\_\_\_

- (a) 90                          (b) 85  
**(c) 80 (Correct)**      (d) 75

**40 If 15 men can do a piece of work in 8 days, how many men will finish it in 10 days?**

- (a) 14                          **(b) 12 (Correct)**  
 (c) 16                          (d) 8

**41 If 3 men or 6 boys can do a work in 20 days, then 6 men and 8 boys shall take:**

- (a) 6 days (Correct)**      (b) 8 days  
 (c) 9 days                      (d) 20 days

**42 The number, whose 25% is 150, is**

- (a) 600 (Correct)**      (b) 700  
 (c) 800                          (d) 900

**43 If 20 men can do a piece of work in 8 days, how many men will finish it in 10 days?**

- (a) 4 men                      **(b) 16 men (Correct)**  
 (c) 8 men                      (d) 18 men

**44 Munir bought a compact disc from a manufacturer for Rs. 200; he paid a 15% sales tax. If he sold the disc to a customer for Rs. 260, calculate the cash profit.**

- (a) Rs. 30.00 (Correct)**    (b) Rs. 35.00  
 (c) Rs. 32.50                (d) Rs. 28.00

**45 Akbar sold his old gun Rs.900, which he was bought for Rs.2500. What is his % loss?**

- (a) 64% (Correct)**    (b) 82%  
 (c) 94%                      (d) 15%

**46 The total distance from school to house is 35km. Naveed Khan covered a distance of 20km. What percentage of the whole distance has he covered?**

- (a) 314%                      (b) 219%  
**(c) 48.57% (Correct)** (d) 103.57%

**47 The number, whose 5% is 35, is**

- (a) 500                      (b) 600  
**(c) 700 (Correct)**        (d) 800

**48 If takes 14 taps to fill a swimming pool in 10 hours. How much time will it take 5 taps to fill the pool?**

- (a) 25                          (b) 26  
**(c) 27                          (d) 28 (Correct)**

**49 The number, whose 25% is 75, is**

- (a) 600                      (b) 500  
**(c) 300 (Correct)**        (d) 400

**50 8 machines can do a piece of work in 10 days. How long will it take 16 machines to do the work?**

- (a) 7 days                      **(b) 5 days (Correct)**  
 (c) 6 days                      (d) 8 days

**51 120 men are used to build huge-building for 30 days. How long will it take 80 men to do the same work?**

- (a) 35 days (Correct)** (b) 30 days  
 (c) 45 days                      (d) 40 days

**52 The original price of a gift pack is Rs.80. A discount of 15% is allowed in shop. What is the sale price.**

- (a) Rs.65                      **(b) Rs.68 (Correct)**  
 (c) Rs.61                      (d) Rs.50

**53 8 men can do a work in 60 days. How long will it take 6 men to do the work?**

- (a) 80 days (Correct)** (b) 90 days  
 (c) 120 days                  (d) 19 days

**54 Which number will come next?**

**1, 2, 4, 8, 16, \_\_\_\_\_**

- (a) 20                          (b) 24  
 (c) 28                          **(d) 32 (Correct)**

**55 Which number will come next?**

**6, 3, 12, 6, 24, \_\_\_\_\_**

- (a) 12 (Correct)**              (b) 18  
 (c) 30                          (d) 48

**56 This road is only 50 km long. We covered a distance of 20 km. What percentage of distance have we covered?**

- (a) 40% (Correct)**              (b) 69%  
 (c) 48%                          (d) 53%

**57 The price of a glass set increases from Rs.600 to Rs.710. what is the percentage increases?**

- (a) 18.33% (Correct)** (b) 17.33  
 (c) 10%                          (d) 14%

**58 Sohail Khan sold a car Rs.80,000 which he was bought for Rs.90,000. What is his % loss?**

- (a) 61.40%                      (b) 55.51%  
 (c) 12.31%                      **(d) 11.11% (Correct)**

**59 The number, whose 3% is 60, is**

- (a) 2000 (Correct)**              (b) 3000  
 (c) 6000                          (d) 9000

**60 A can do a piece of work in 10 days and B can do it in 15 days. The number of days required by them to finish it, working together is**

- (a) 8                                  (b) 7

(c) **6 (Correct)**            (d) 4

**61**    **15 men can do a work in 12 days. How long it will take. 9 men to do the work?**

- (a) 14 days            (b) **20 days (Correct)**  
(c) 9 days            (d) 19 days

**62**    **40 men can do work in 25 days. How long it will take 25 men to do the work?**

- (a) 50 days            (b) **40 days (Correct)**  
(c) 60 days            (d) 70 days

**63**    **60 men can do a work in 40 days. How long it will take 20 men to do the work?**

- (a) 160 days            (b) 40 days  
(c) 180 days            (d) **120 days (Correct)**

**64**    **Which number will come next?**

**1, 1, 6, 6, 11, 11, \_\_\_\_\_**

- (a) 11            (b) 13  
(c) **16 (Correct)**            (d) 17

**65**    **Which number will come next?**

**64, 32, 16, 8, \_\_\_\_\_**

- (a) 0            (b) 1  
(c) 2            (d) **4 (Correct)**

**66**    **Which number will come next?**

**87, 90, 84, 88, 81, \_\_\_\_\_**

- (a) 85            (b) 98  
(c) **86 (Correct)**            (d) 76

**67**    **Which number will come next?**

**2, 4, 7, 11, 16, \_\_\_\_\_**

- (a) 18            (b) 20  
(c) **22 (Correct)**            (d) 25

**68**    **The number, whose 15% is 75, is**

- (a) **500 (Correct)**            (b) 600  
(c) 700            (d) 800

**69**    **A shopkeeper bought a radio from a wholesaler for Rs. 250.00. In addition, he paid a**



**sales tax of 15% on the cost price. He then sold the radio for Rs. 315.00. Calculate the cash profit made by the shopkeeper.**

- (a) Rs. 20.00                      (b) Rs. 22.50  
 (c) Rs. 25.00                      **(d) Rs. 27.50 (Correct)**

**70 A man takes 50 minutes to cover a certain distance at a speed of 6 km/hr. If he walks with a speed of 10 km/hr, he covers the same distance in**

- (a) 1 hour                              **(b) 30 minutes (Correct)**  
 (c) 20 minutes                      (d) 10 minutes

**71 The number, whose 5% is 10, is**

- (a) 100 (Correct)**                      (b) 200  
 (c) 300                                  (d) 400

**72 The difference between simple and compound interest on Rs. 1625 for 3 years at 4% per annum in rupees is**

- (a) 7.95                                  **(b) 7.90 (Correct)**  
 (c) 7.70                                  (d) 7.75

**73 The number, whose 5% is 55, is**

- (a) 1100 (Correct)**                      (b) 2100  
 (c) 1200                                  (d) 1300

**74 We covered a 150 km distance of Islamabad road. The total distance is 370 km. What percentage of distance have we covered?**

- (a) 30% (Correct)**                      (b) 40.54%  
 (c) 67%                                  (d) 41%

**75 Which number will come next?**

**1, 0, 3, 2, 5, 6, \_\_\_\_\_**

- (a) 9    (b) 8  
**(c) 7 (Correct)**                      (d) 10

**76 Which one number will complete the following number series?**

**8, 9, 8, 7, 10, 9, 6, 11, 10, \_\_\_\_\_, 12**

- (a) 11    (b) 7  
 (c) 7    **(d) 5 (Correct)**

**77 Which number will come next? Series: 1, 3, 7, 15, 31, 63, \_\_\_\_\_**

- (a) 123                                      (b) 125

(c) **127 (Correct)** (d) 129

**78 By selling a fan for Rs. 475, a person loses 5%. To get a gain of 5%, he should sell the fan for:**

- (a) Rs. 500 (b) Rs. 525 (Correct)  
 (c) Rs. 535 (d) Rs. 575

**79 Which number will come next?**

**1, 2, 2, 5, 3, 10, \_\_\_\_\_**

- (a) 12 (b) 8  
 (c) 6 (d) **4 (Correct)**

**80 Which number will come next?**

**5, 3, 6, 2, 7, 1, \_\_\_\_\_**

- (a) 0 (b) 2  
 (c) **8 (Correct)** (d) 4

**81 The number, whose 7% is 14, is**

- (a) 500 (b) 400  
 (c) 300 (d) **200 (Correct)**

**82 If the difference between 5 times and 9 times of a number is 24 the number is**

- (a) 4 (b) 5  
 (c) **6 (Correct)** (d) 7

**83 A man bought a flat for Rs. 8,20,000. He borrowed 55% of this money from a bank. How much money did he borrow from the bank?**

- (a) **Rs. 4,51,000 (Correct)** (b) Rs. 4,52,000  
 (c) Rs. 4,53,000 (d) Rs. 4,54,000

**84 Insert the missing number:**

**5 ? 14 10 9 7**

- (a) **18 (Correct)** (b) 16  
 (c) 14 (d) 12

**85 The road is completed in 35 days by 70 men. How long it will take 40 men to complete the work?**

- (a) 58 days (b) **61 days (Correct)**  
 (c) 30 days (d) 32 days

**86 The speed of a car is 30km first hour and 32 km in the second hour .Its average speed is**

- (a) 30 km                      **(b) 31 km (Correct)**  
 (c) 32 km                      (d) 33 km

**87 A primary school had an enrollment of 850 pupils in January 1970. In January 1980 the enrollment was 1,120. What was the percentage increase for the enrollment?**

- (a) 31.76 % (Correct)**      (b) 33.50 %  
 (c) 30.65 %                  (d) 34.76 %

**88 The number, whose 7% is 42, is**

- (a) 300                          (b) 400  
 (c) 500                          **(d) 600 (Correct)**

**89 Mr. Remzan ordered a car worth Rs.600.000 and was given a discount. Given that he paid Rs.57,0000 for his new car, calculate the percentage discount he received:**

- (a) 5% (Correct)**      (b) 7%  
 (c) 9%                          (d) 10%

90 Which is the greatest number?

- (a) 1/4 of 236                  (b) 1/16 of 1028  
 (c) 1/9 of 504                  **(d) 1/3 of 741 (Correct)**

**91 All gained 510 marks in matriculation examination. What percentage of marks did he gain?**

- (a) 60% (Correct)**      (b) 57%  
 (c) 71%                          (d) 73%

**92 Akbar scored 178 marks out of 300 marks in a certain test. What percentage of marks did he score?**

- (a) 48%                          (b) 52.41%  
 (c) 61.41%                      **(d) 59.33% (Correct)**

**93 The price of a book increases from Rs.120 to Rs.150. What is the percentage increases?**

- (a) 35%                          **(b) 25% (Correct)**  
 (c) 115%                          (d) 25.25.1

**94 A cyclist covers 660 feet in 66 seconds. How many yards will he cover in the same time?**

- (a) 220 (Correct)**      (b) 600  
 (c) 100                          (d) 10

**95 The sum of 2 numbers is 84, if one of them exceeds the other by 12. Find the numbers?**

- (a) 40,52 (b) 1,13  
**(c) 36,48 (Correct)** (d) 72,84

**96 10 men can construct a building in 40 days. How long will it take 20 men to do this work?**

- (a) 20 days (Correct)** (b) 30 days  
 (c) 40 days (d) 50 days

**97 Which number will come next?**

8, 13, 10, 15, 12, 17, 14, \_\_\_\_\_

- (a) 19 (Correct)** (b) 22  
 (c) 16 (d) 20

**98 The number, whose 9% is 63, is**

- (a) 700 (Correct)** (b) 800  
 (c) 900 (d) 600

**99 The bridge is completed in 20 days by 80 men. How long would 70 men to complete the work?**

- (a) 30 days (b) 29 days  
**(c) 23 days (Correct)** (d) 26 days

**100 There are four numbers. Average of the first three is 15 and that of the last three is 16. If the last number is 19 find the first number:**

- (a) 16 (Correct)** (b) 18  
 (c) 20 (d) 21

**101 10 men can complete a job in 14 days. How long will it take 4 men to finish the same job if they work at the same rate?**

- (a) 33 days **(b) 35 days (Correct)**  
 (c) 37 days (d) 39 days

**102 A man takes 50 minutes to cover a certain distance at a speed of 6 km/hr. If he walks with a speed of 10 km/hr. he covers the same distance in:**

- (a) 1 hour **(b) 30 minutes (Correct)**  
 (c) 20 minutes (d) 10 minutes

**103 A man pays 10% of his income as income tax. If his income tax amounts to Rs.1500, what is his income?**

- (a) Rs.13000                      **(b) Rs.15000 (Correct)**  
 (c) Rs.17000                      (d) Rs.19000

**104 Babar spends Rs.500 to get a good shirt and sells it at Rs.800. Find the percentage of Profit?**

- (a) 59%                              **(b) 60% (Correct)**  
 (c) 63%                              (d) 40%

**105 The number, whose 7% is 21, is**

- (a) 500                              (b) 400  
**(c) 300 (Correct)**                      (d) 200

**106 What sum of money will amount to Rs.1800 in 5 years at 12% per annum simple interest?**

- (a) 1000                              (b) 1120  
**(c) 1125 (Correct)**                      (d) 1130

**107 Anwar bought a shirt for Rs.500 and sold it Rs.525. What profit did Anwar get?**

- (a) Rs.35                              (b) Rs.30  
 (c) Rs.25 (Correct)                      (d) Rs.20

**108 Which number will come next?**

2, 5, 8, 11, 14, \_\_\_\_\_

- (a) 18                                  **(b) 17 (Correct)**  
 (c) 19                                  (d) 16

**109 Which number will come next?**

**2, 20, 74, 110, \_\_\_\_\_**

- (a) 115                                  (b) 132  
**(c) 114                                  (d) 182 (Correct)**

**110 A basketball team won 18 out of 30 games played. What percentage of marks did he score?**

- (a) 60% (Correct)**                      (b) 40%  
 (c) 43%                                  (d) 87%

**111 If 12 years are added to 2/3 age of Kausar, she will be three years older than today. What is kausar's present age?**

- (a) 25                                  **(b) 27 (Correct)**

(c) 26                      (d) 29

**112 Three families, P, Q and R, share 480 kg of rice, Q receives twice as much rice as P and R receives half as much rice as Q. How much rice does family Q gets?**

(a) 220 kg                      (b) 230 kg  
**(c) 240 kg (Correct)**      (d) 250 kg

**113 Six men working 8 hours a day earn Rs. 720 per week. 8 men working 6 hours a day will earn per week**

(a) Rs. 540                      **(b) Rs. 720 (Correct)**  
(c) Rs. 960                      (d) Rs. 1080

**114 In the exam 45% students failed and 550 students were successful. The total number of students who appeared in the exam were:**

**(a) 1000 (Correct)**      (b) 900  
(c) 1500                      (d) 800

**115 Nasir Gujar bought a table for Rs.200 and sold it Rs.175. How much loss did Nasir Gujar get?**

**(a) Rs.25 (Correct)**      (b) Rs.20  
(c) Rs.40                      (d) Rs.30

**116 Price of sugar is increased by 25%. The percentage of consumption to be decreased so that there would be no increase in the expenditure is**

(a) 18 %                      **(b) 20 % (Correct)**  
(c) 22 %                      (d) 24 %

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