

# M-CAT Advantage



A set of 6 papers along with  
answer key to gain Advantage  
in NELTAS M-CAT Exam



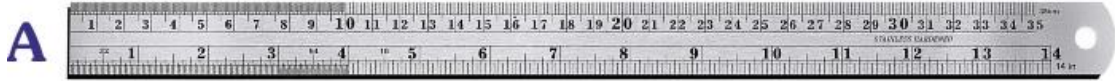
1. There are 4 tens and 9 ones in \_\_\_\_\_.

- a. 40                      b. 49                      c. 45                      d. 94

2.  $200 + 0 + 5 =$  \_\_\_\_\_

- a. 205                      b. 251                      c. 250                      d. 350

3. Which of these is longer?



- a. A                      b. B                      c. Both are equal                      d. None of these

4.  $61 - 5 =$  \_\_\_\_\_

- a. 57                      b. 55                      c. 56                      d. 54

5. Based on the given figure:

Weight of 3 apples = Weight of \_\_\_\_\_ oranges.

- a. 3  
b. 6  
c. 9  
d. None of these



6. The bus leaves the stop at 5 pm. I reach the bus stop half an hour early.

What time did I reach the stop?

- a. 4:00 AM  
b. 5:30 PM  
c. 4:30 PM  
d. 4:30 AM



7. The place value of 7 in 705 is \_\_\_\_\_.

- a. 7                      b. 70                      c. 700                      d. None of these

8.  $54 \div 6 =$  \_\_\_\_\_

- a. 9                      b. 4                      c. 6                      d. 7

9.  $66 - 29 =$  \_\_\_\_\_

- a. 35                      b. 37                      c. 34                      d. 36

1. \_\_\_\_\_ is the predecessor of 2000.  
 a. 2001                      b. 1999                      c. 1990                      d. 1991
2.  $299 + 1001 =$  \_\_\_\_\_  
 a. 1331                      b. 1330                      c. 1300                      d. 1430
3. Rounding 2347 to nearest 100's gives \_\_\_\_\_.  
 a. 2300                      b. 2400                      c. 2340                      d. None of these
4. 500 is the place value of 5 in \_\_\_\_\_.  
 a. 1543                      b. 5143                      c. 59                      d. 4356
5. The numeral for  $9000 + 900 + 9$  is \_\_\_\_\_.  
 a. 9999                      b. 9990                      c. 7120                      d. 9909

6. Harini bought books worth ₹360. She paid ₹500 to the shopkeeper.  
 How much should she get back from the shopkeeper?  
 a. ₹860                      b. ₹140  
 c. ₹240                      d. ₹114



7.  $3900 - 299 =$  \_\_\_\_\_  
 a. 3639                      b. 3589                      c. 3601                      d. 3610

8. I have 5 apples. I cut each apple into 9 slices.  
 How many slices are there in all?  
 a. 54                      b. 45  
 c. 4                      d. 14



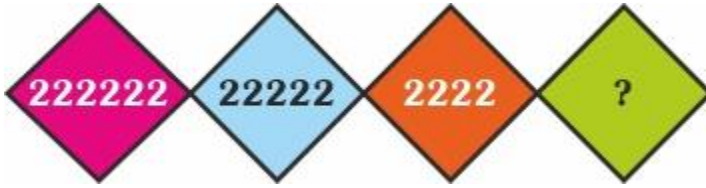
9.  $238 \times 7 =$  \_\_\_\_\_  
 a. 1766                      b. 1666                      c. 1566                      d. None of these

10. There are 367 apples in a crate. 169 turned to be rotten.  
 How many apples are good in the crate?  
 a. 198                      b. 188  
 c. 208                      d. 536



11.  $800 \div$  \_\_\_\_\_  $= 8$   
 a. 10                      b. 100                      c. 1000                      d. None of these

1. Complete the pattern: 222222, 22222, 2222, \_\_\_\_\_



- a. 2220                      b. 202                      c. 222                      d. None of these

2. The greatest number from the given numbers is \_\_\_\_\_.

53291, 23121, 116622, 200000, 25559

- a. 25559                      b. 200000                      c. 116622                      d. 53291

3.  $4,36,201 + 8,32,110 =$  \_\_\_\_\_

- a. 12,69,311                      b. 12,68,311                      c. 12,78,311                      d. 1,22,834

4. Find a pair of two numbers whose sum is 200 and difference is 100.

- a. 180, 20                      b. 150, 100                      c. 100, 50                      d. 150, 50

5.  $2,08,020 - 1,99,900 =$  \_\_\_\_\_

- a. 8,120                      b. 7,210                      c. 7,120                      d. None of these

6.  $19 \times 81 =$  \_\_\_\_\_

- a. 1,359                      b. 1,939                      c. 2,539                      d. 1,539

7. A machine can wash 1,320 clothes in an hour.  
How many clothes can it wash in 31 hours?

- a. 1,351  
b. 1,289  
c. 40,920  
d. 41,920



8.  $1,368 \times 200 = 13,680 \times$  \_\_\_\_\_

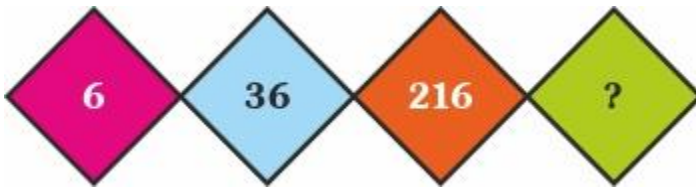
- a. 10                      b. 20                      c. 200                      d. None of these

9.  $3003 \div 18$

Quotient = \_\_\_\_\_

- a. 156                      b. 166                      c. 176                      d. 146

1. The number name in Indian system for 3,72,31,986 is \_\_\_\_\_.
  - a. Three lakh seventy-two thousand three hundred and eighty-six
  - b. Three crore seventy-two lakh thirty thousand nine hundred and eighty-six
  - c. Three crore seventy-two lakh thirty-one thousand nine hundred and eighty-six
  - d. None of these
  
2. In which of the following numbers the place value of 9 is 9,000?
  - a. 4,56,90,080
  - b. 2,39,700
  - c. 66,90,700
  - d. 9,87,654
  
3. What comes next in the following pattern? 6, 36, 216, \_\_\_\_\_

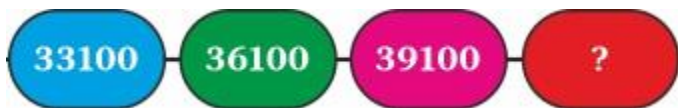


- a. 1286
  - b. 1296
  - c. 1276
  - d. None of the above
4. How many cm make 7 dm?
    - a. 70,000
    - b. 700
    - c. 7,000
    - d. 70
  
  5.  $4,45,566 + \underline{\hspace{2cm}} = 5,00,000$ 
    - a. 54,434
    - b. 9,45,566
    - c. 5,44,034
    - d. 9,45,066
  
  6. What will be the remainder if we divide 999 by 7?
    - a. 6
    - b. 7
    - c. 5
    - d. 4
  
  7. What is the value of  $66 \times 10 + 2$ ?
    - a. 792
    - b. 662
    - c. 892
    - d. None of these
  
  8. Say True or False. If  $3p - 10 = 11$ , then  $p = 7$ .
    - a. False
    - b. True
    - c. Cannot say
    - d. None of these
  
  9.  $1,22,132 \times 2 = \underline{\hspace{2cm}}$ 
    - a. 1,44,264
    - b. 2,44,164
    - c. 2,04,264
    - d. 2,44,264
  
  10. What is the LCM of 12, 14?
    - a. 86
    - b. 94
    - c. 56
    - d. None of these

1. Sum of place value and face value of 5 in 67,856 is \_\_\_\_\_.  
 a. 56                              b. 55                              c. 50                              d. 45
2. Write an expression for four more than twice of y.  
 a.  $4+2y$                               b.  $4-2y$                               c.  $2(y+4)$                               d. None of these
3. Say True or False: -10 is 100 less than 90.  
 a. False                              b. True                              c. Cannot say                              d. None of these
4. 103 is the square root of \_\_\_\_\_.  
 a. 10,906                              b. 10,069                              c. 10,619                              d. None of these
5. Equivalent fraction of  $\frac{9}{11}$  is \_\_\_\_\_.  
 a.  $\frac{99}{110}$                               b.  $\frac{117}{143}$                               c.  $\frac{72}{121}$                               d. None of these
6.  $0.14 + 1.14 =$  \_\_\_\_\_.  
 a. 1.24                              b. 2.28                              c. 1.82                              d. 1.28
7. What comes next in the following pattern? 1942, 1922, 1902, \_\_\_\_\_



- a. 1802                              b. 1892                              c. 1882                              d. None of these
8. What is 3.14 as a fraction?  
 a.  $3\frac{14}{10}$                               b.  $3\frac{14}{1000}$                               c.  $3\frac{14}{100}$                               d. None of these
9. The average test score of 4 girls is 70. If the marks of three girls are 76, 78 and 64, then how many marks did the fourth girls score?  
 a. 62                              b. 64                              c. 66                              d. 72
10. If  $64 - 2y = 10$ , then  $y =$  \_\_\_\_\_.  
 a. -27                              b. 27                              c. -37                              d. 37
11. What comes next in the following series?



- a. 41200                              b. 42110                              c. 420100                              d. 42100

1.  $\frac{2}{5} \times \frac{15}{24} = \underline{\hspace{2cm}}$

- a.  $\frac{1}{4}$                       b.  $3\frac{1}{2}$                       c.  $\frac{3}{8}$                       d.  $\frac{3}{5}$

2. What is  $\frac{40}{58}$  in its simplest form?

- a.  $\frac{20}{27}$                       b.  $\frac{20}{29}$                       c.  $\frac{20}{3}$                       d.  $\frac{10}{13}$

3. Find the average of 14.2, 0.04 and 8.

- a. 7.18                      b. 17.08                      c. 7.14                      d. 7.41

4.  $(-10.1)^2 = \underline{\hspace{2cm}}$

- a. 101.01                      b. 102.01                      c. 110.01                      d. None of these

5.  $88.2 \times (-0.9) = \underline{\hspace{2cm}}$

- a. -75.38                      b. -79.38                      c. -72.38                      d. None of these

6. Find the sum of the 3 numbers, if their average is 10.4.

- a. 31.2                      b. 31.11                      c. 31.1                      d. 32.1

7.  $18^6 \div 18^2 = \underline{\hspace{2cm}}$

- a.  $18^8$                       b.  $181^2$                       c.  $18^4$                       d. None of these

8. A group of grade 7 students has 8 boys and 24 girls. What is the ratio of girls to all children?



- a. 3:1                      b. 3:2                      c. 3:5                      d. 3:4

9. LCM of 12 and 18 is \_\_\_\_\_.

- a. 64                      b. 36                      c. 72                      d. 56

1. Area of a square plot of land of side  $\frac{17}{2}$  m is \_\_\_\_\_ sq m.  
 a. 72.15                      b. 72.25                      c. 72.05                      d. None of these
2. Simplify:  $\frac{5^{n+2} - 5^{n+1}}{5^{n+3}}$   
 a.  $\frac{4}{25}$                       b.  $\frac{4}{15}$                       c.  $\frac{3}{25}$                       d. None of these
3. Multiplicative inverse of  $\frac{6}{13}$  is \_\_\_\_\_.  
 a. 1                      b.  $\frac{7}{13}$                       c.  $\frac{6}{1}$                       d.  $\frac{13}{6}$
4. If  $A \cup B = B$ , then \_\_\_\_  
 a. A is a subset of B                      b. B is a subset of A  
 c. A and B are disjoint sets                      d. None of these
5. Evaluate:  $\frac{1}{2-1} + \frac{1}{3-1}$   
 a. 1                      b. 3                      c. 5                      d. None of these
6. If 1476Y is divisible by 11, then what are the possible values of Y?  
 a. 3                      b. 4                      c. 2                      d. None of these
7. Which of the following alphabets has two lines of symmetry?  
 a. B                      b. X                      c. M                      d. L
8. If  $AA \times AA = A2A$ , then  $A =$  \_\_\_\_  
 a. 9                      b. 5                      c. 2                      d. 1
9. If  $x - \frac{1}{x} = 5$ , then  $x^2 + \frac{1}{x^2} =$  \_\_\_\_  
 a. 25                      b. 23                      c. 27                      d. None of these
10. Factorise:  $ax + bx - ay - by$   
 a.  $(a + b)(x + y)$                       b.  $(a - b)(x - y)$                       c.  $(x - y)(a + b)$                       d. None of these
11. Sita's age is twice the age of her brother. If the sum of their ages is 33, find Sita's age.  
 a. 11                      b. 23                      c. 22                      d. 32