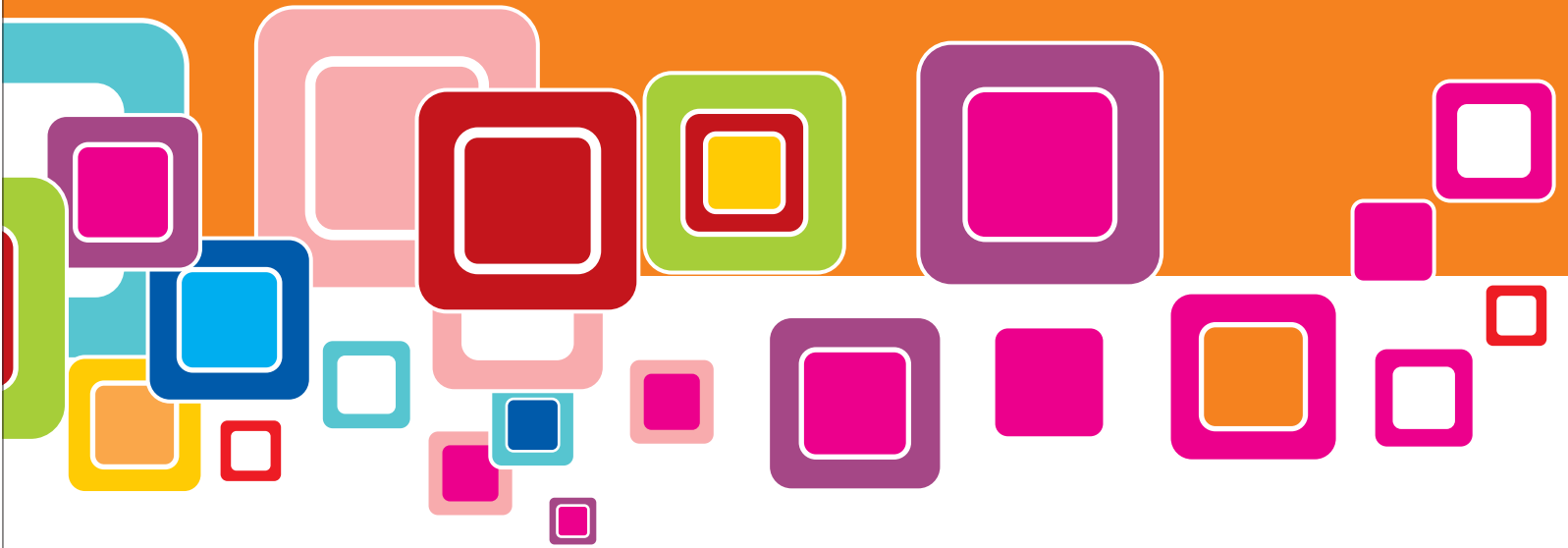




Math Olympiad



Grade V - VI

Q.1 Which of the following is one billion?

- a) 1,000,000 b) 10,000,000
c) 10,000,000,000 d) 1,000,000,000

Q.2 How many zeroes does two hundred million have?

- a) 9 b) 8 c) 7 d) 6

Q.3 Sum of greatest and smallest two digit numbers is;

- a) 10 b) 20 c) 99 d) 109

Q.4 If we subtract the smallest two digit number from the largest two digit number, we get.

- a) 99 b) 89 c) 109 d) 110

Q.5 The number 728 multiplied by 100 is _____.

- a) 7280 b) 728000 c) 72800 d) 728

Q.6 If we divide 480 by 10, we get;

- a) 48 b) 480 c) 4800 d) 48000

Q.7 The smallest six digit number is;

- a) 666,666 b) 100,000 c) 999,999 d) 900,000

Q.8 Which operation will be performed first?

- a) + b) - c) × d) ÷

Q.9 The sum of 456,981 and 341,234

- a) 798,215 b) 789,205 c) 789,215 d) 771,215

Q.10 The difference of 4856 and 1246.

- a) 3060 b) 3611 c) 3610 d) 3700

Q.11 The product of 4972 and 32 is _____.

- a) 159104 b) 149104 c) 139103 d) 112,535

Q.12 $34,545 \div 15 =$ _____.

- a) 2130 b) 3023 c) 2303 d) 2330

Q.13 If the HCF of two numbers is '1' then the numbers are _____ numbers.

- a) Divisors b) Primes c) Co-prime d) Factors

Q.14 The HCF of 5, 10 and 15 is;

- a) 5 b) 10 c) 20 d) 30

Q.15 The LCM of two or more prime numbers is equal to their _____.

- a) sum b) product c) difference d) quotient

Q.16 Prime factorization of 32 is _____.

- a) $4 \times 4 \times 2$ b) $8 \times 2 \times 2$ c) $2 \times 2 \times 2 \times 2 \times 2$ d) $2 \times 4 \times 2$

Q.17 LCM of 14, 16, 24 is _____.

- a) 336 b) 326 c) 316 d) 306

Q.18 The sum of $\frac{1}{3}$ and $\frac{2}{5}$ is _____.

- a) $\frac{3}{8}$ b) $\frac{11}{8}$ c) $\frac{11}{15}$ d) $\frac{3}{5}$

Q.19 $\frac{4}{5} - \frac{1}{3} =$ _____.

- a) $\frac{1}{3}$ b) $\frac{3}{5}$ c) $\frac{1}{5}$ d) $\frac{7}{15}$

Q.20 $\frac{3}{4} \times 3$ means adding $\frac{3}{4}$ _____ times.

- a) 2 b) 3 c) 4 d) 0

Q.21 $\frac{2}{5} \times \frac{3}{4} =$ _____.

- a) $\frac{15}{8}$ b) $\frac{8}{15}$ c) $\frac{6}{5}$ d) $\frac{3}{10}$

Q.22 The reciprocal of $\frac{2}{3}$ is _____.

- a) $\frac{1}{2}$ b) $\frac{3}{2}$ c) $\frac{1}{4}$ d) $\frac{5}{6}$

Q.23 _____ is smaller than 45.3

- a) 46.3 b) 45.1 c) 46.8 d) 45.8

Q.24 When we divide a decimal by 10, the decimal point moves _____ point to the left.

- a) 1 b) 2 c) 3 d) 4

Q.25 When we multiply a decimal number by _____ the decimal point moves three points to the right.

- a) 1 b) 10 c) 100 d) 1000

Q.26 50% of 200 is _____.

- a) 10 b) 100 c) 50 d) 25

Q.27 The sum of 3.45 and 6.982 is _____.

- a) 10.430 b) 10.233 c) 10.432 d) 10.423

Q.28 The number which is divisible by "1" and number itself is called;

- a) Prime b) Composite c) Even d) Odd

Q.29 428 is divisible by;

- a) 3 b) 4 c) 5 d) 7

Q.30 A number divisible by 2 and 3 is also divisible by ;

- a) 6 b) 4 c) 8 d) 9

Q.31 The least common multiples of 6 and 5 is ;

- a) 12 b) 10 c) 15 d) 30

Q.32 The smallest number divisible by 2, 3 and 5 is ;

- a) 15 b) 60 c) 30 d) 20

Q.33 Which is the correct word form of 9.04?

- a) Nine and four tenths b) Ninety and four hundredths
c) Nine and four hundredths d) Nine and four thousandths

Q.34 What is the value of the 5 in the number "689,050".

- a) ten b) ten thousand
c) ten million d) ten billion

Q.35 Choose the number that is not divisible by 3.

- a) 252 b) 367 c) 183 d) 492

Q.36 Identify the place value of 5 in given 17,526,010

- a) five ten thousands b) five thousands
c) five hundred thousands d) five hundreds

Q.37 Complete the number sentence.

$$327,421 = 300,000 + 20,000 + \underline{\hspace{2cm}} + 400 + 20 + 1$$

- a) 70,000 b) 700,000 c) 7,000 d) 700

Q.38 Which number shows five hundred six thousand and seventy-three.?

- a) 516073 b) 506073 c) 526073 d) 526063

Q.39 How do you write 10.067 in expanded notation?

- a) $1 + \frac{6}{100} + \frac{7}{1000}$ b) $1 + \frac{6}{10} + \frac{7}{100}$
c) $100 + 60 + 7$ d) $10 + \frac{6}{100} + \frac{7}{1000}$

Q.40 How many factors do 10 have?

- a) 4 b) 5 c) 6 d) An infinity

Q.41 The number 40 is not a multiple of which of the following number?

- a) 8 b) 80 c) 120 d) 200

Q.42 Find the lowest common multiple of 15 and 8.

- a) 120 b) 90 c) 100 d) 110

Q.43 Find the LCM of 12,16 and 25.

- a) 100 b) 147 c) 1200 d) 1085

Q.44 Write 240,004,395 in expanded notation?

- a) $200,000,000 + 40,000,000 + 4,000,000 + 300 + 90 + 5$
b) $200,000,000 + 40,000,000 + 4,000 + 300 + 90 + 5$
c) $200,000,0000 + 40,000,000 + 300 + 90 + 5$

Q.45 The value of “p” in the equation “ $p + 6 = 10$ ” is _____.

- a) 4 b) 10 c) 5 d) none of these

Q.46 Round off 496 to the nearest hundred.

- a) 400 b) 500 c) 600 d) 700

Q.47 Which of the following statement is true?

- a) 1 is not a prime number b) 1 is a prime number
c) 1 is a composite number d) none of these

Q.48 What is the highest common factor (HCF) of the numbers 425 and 475?

- a) 4 b) 5 c) 17 d) 25

Q.49 What is the least common multiple (LCM) of the numbers 90, 60, 75 and 35?

- a) 2700 b) 6300 c) 4250 d) 2750

Q.50 Which of the following is correct?

- a) successor of predecessor of 1000 is 1001
- b) successor of predecessor of 1000 is 1002
- c) predecessor of successor of 1000 is 1000
- d) predecessor of predecessor 1000 is 999

Q.51 The missing numbers in the multiplication table are:

x	-3	-1	2	5
-3	9	3	-6	
-1	3	1		-5
2	-6		4	10
5	-15	-5	10	25

- a) - 15, - 2, - 2
- b) - 16, - 3, - 4
- c) 15, 2, 2
- d) none of these

Q.52 $-44 \div -4$

- a) - 11
- b) 4
- c) 10
- d) 11

Q.53 The missing numbers in the addition table are:

+	4	1	- 2
3	7	4	1
-1	3	0	-3
-3			

- a) 4, 1, -2
- b) 1, -2, -5
- c) 7, 4, 5
- d) None of the above

Q.54 What are the sixth and ninth multiples of 167?

- a) 998 and 1103
- b) 1002 and 1503
- c) 1224 and 1603
- d) None of the above

Q.55 Place the correct symbol. $-6 \square (-15) = -15 \square (-6) = 90$

- a) \times Multiplication
- b) $-$ subtraction
- c) \div Divide
- d) $+$ addition

Q.56 Solve $2 \times 3^3 \times 5^2 =$ _____.

- a) 1050
- b) 1150
- c) 1250
- d) 1350

Q.57 Compare the two numbers and put the correct sign?

806,513 _____ 860,530

- a) $>$
- b) $<$
- c) $=$
- d) $*$

Q.58 The positive value of $\sqrt{100}$

- a) 30
- b) 10
- c) 20
- d) 33

Q.59 $\sqrt[3]{27} = \underline{\hspace{2cm}}$.

- a) 2 b) 3 c) 4 d) 5

Q.60 A number is divisible by 5 , if the last digit is.

- a) 3 or 5 b) 2 or 5 c) 1 or 5 d) 0 or 5

Q.61 The number 6786 is divisible by 3, it is also divisible by

- a) 5 b) 7 c) 9 d) None of these

Q.62 Which of the following number is divisible by 5?

- a) 421 b) 2316 c) 8905 d) 67554

Q.63 How many numbers between 110 and 120 are divisible by 5?

- a) 1 b) 2 c) 3 d) 4

Q.64 The number 9086 is divisible by

- a) 2 b) 3 c) 5 d) 9

Q.65 Find the common factors of 24 and 30.

- a) 1, 2 b) 3 c) 6 d) All of them

Q.66 Round off the number 828 to the nearest ten.

- a) 800 b) 825 c) 820 d) 830

Q.67 There is just one prime number between 110 and 120. What is it?

- a) 113 b) 114 c) 115 d) 117

Q.68 Arrange the following numbers in descending order.

123456, 654321, 456123, 543216

- a) 123456, 456123, 543216, 654321
b) 654321, 543216, 456123, 123456
c) 123456, 654321, 543216, 456123
d) 654321, 543216, 123456, 456123

Q.69 $\sqrt{12^2 + 16^2} = \underline{\hspace{2cm}}$.

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

Q.70 The sum of two square numbers is 15^2 . What are these square numbers?

- a) 7^2 and 11^2 b) 8^2 and 13^2
c) 9^2 and 12^2 d) None of these

Q.71 The correct order to apply operations is

- a) Addition, Multiplication, Division, Subtraction
- b) Division, Multiplication, Subtraction, Addition
- c) Division, Multiplication, Addition, Subtraction

Q.72 The second term of the sequence is 10. The term to term rule is: Multiply by 4 then subtract 2. What is the first term of the sequence?

- a) 3
- b) 4
- c) 5
- d) 6

Q.73 Which operations shows the commutative property of addition?

- a) $5 + 4 = 5 + 4$
- b) $6 + 1 = 7$
- c) $1 + (4 + 7) = (1 + 4) + 7$
- d) None of these

Q.74 If $4a + 3 = 15$ then the value of “2a” is _____ .

- a) 9
- b) 3
- c) 6
- d) 5

Q.75 Look at these numbers 0.7, 0.5, 0.8, 0.6 which two numbers have a difference of 0.3?

- a) 0.8, 0.7
- b) 0.8, 0.6
- c) 0.8, 0.5
- d) 0.7, 0.5

Q.76 This pattern is made from dots.

Pattern 1

Pattern 2

Pattern 3

What is the term to term rule?



- a) Add 2
- b) Add 3
- c) Add 4
- d) Add 5

Q.77 If there are 5000 mangoes in 100 boxes, how many mangoes will be there in 75 boxes?

- a) 3570
- b) 3750
- c) 4000
- d) 2750

Q.78 Find the smallest number by which the number 81 must be divided to obtain a perfect cube.

- a) 2
- b) 4
- c) 9
- d) 3

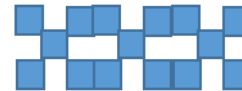
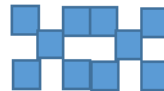
Q.79 This pattern is made from squares.

Pattern 1

Pattern 2

Pattern 3

How many squares will be there in 10th Pattern?



- a) 40
- b) 45
- c) 50
- d) 60

Q.80 Aleena has a bag that contains n sweets. She takes three out. Which of the following expression shows the total number of sweets she has in the bag?

- a) $3 - n$
- b) $n - 3$
- c) $n + 3$
- d) $3n$

- Q.90** Fatima thinks of a number, n . Write an expression for the number Fatima gets when she subtract 5 from the number and then divides it by 4.
- a) $\frac{5-n}{4}$ b) $\frac{n-4}{5}$ c) $\frac{n-5}{4}$ d) none of these
- Q.91** Solve $-15 \div 3 + 4 \times (-2)$
- a) -12 b) -13 c) -14 d) -15
- Q.92** How many prime numbers are there between 1 and 100?
- a) 20 b) 30 c) 25 d) 24
- Q.93** 3 is a _____ number.
- a) prime b) composite c) even d) none of these
- Q.94** 4, 6, 8, 9, 10, 12 are _____.
- a) Prime numbers b) Even numbers
c) Composite numbers d) Odd numbers
- Q.95** Find the smallest number that has 3, 4, 5 and 6 as factors .
- a) 20 b) 40 c) 60 d) 70
- Q.96** The first 5 multiples of 3
- a) 3, 6, 10, 15, 20 b) 1, 3, 5, 7, 9
c) 3, 6, 9, 12, 15 d) 6, 9, 12, 15, 18
- Q.97** How many minutes are there in $\frac{2}{3}$ of an hour?
- a) 40 minutes b) 60 minutes c) 20 minutes d) 100 minutes
- Q.98** A coat costs Rs.40. Which is a biggest discount offer for the coat?
- a) $\frac{1}{4}$ off the normal price b) $\frac{3}{10}$ off the normal price
c) $\frac{2}{10}$ off the normal price d) $\frac{1}{2}$ off the normal price
- Q.99** There are _____ minutes in 3 hours and 5 minutes.
- a) 185 b) 175 c) 160 d) 120
- Q.100** There are _____ months in "4 years and 11 months".
- a) 53 b) 59 c) 54 d) 57
- Q.101** The sum of 4 hours 56 minutes and 3 hours 16 minutes is _____.
- a) 7 hour 56 min b) 7 hour 12 min
c) 8 hour 12 min d) 8 hour 56 min

Q.102 Total distance of 45 km and 23 meters in meters is _____.

- a) 45023 b) 45000 c) 42300 d) 407300

Q.103 The term 'Unitary' is derived from the word 'Unit' meaning

- a) 0 b) 100 c) 1 d) 10

Q.104 $\sqrt{10 - 3 \times (-2)} =$ _____.

- a) ± 2 b) ± 3 c) ± 4 d) ± 5

Q.105 The cost of one photo frame is Rs.650. The cost of 3 such photo frames will be _____.

- a) Rs.1950 b) Rs.1300 c) Rs.2160 d) Rs.1900

Q.106 The price of 8 bags of cement is Rs.4640. The price of 11 such bags of cement will be:

- a) Rs.6370 b) Rs.6380 c) Rs.6390 d) Rs.6830

Q.107 Solve $4 \times 4.482 =$ _____.

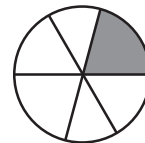
- a) 18.28 b) 17.928 c) 20.28 d) 22.28

Q.108 Ahmad buys four length of pipe that measure $1.8 \text{ m} + 3.5 \text{ m} + 2.45 \text{ m} + 0.85$. What is the total length of pipe.

- a) 8.6 m b) 9.6 m c) 10.6 m d) 11.6 m

Q.109 In figure, the shaded portion of the circle represents

- a) $1/2$ of $1/4$ b) $1/2$ of $1/6$
c) $1/2$ of $1/3$ d) $1/3$ of $1/4$



Q.110 455 m = _____ km.

- a) 45.5 km b) 455 km c) 4.55 km d) 0.455 km

Q.111 Which metric units would use to measure the length of the football field?

- a) km b) kg c) m d) none of these

Q.112 The smallest metric unit of length is

- a) kilometer b) metre
c) centimeter d) millimeter

Q.113 10 mm = cm

- a) 1 b) 0.1 c) 0.01 d) 0.001

Q.114 The answer of 0.36×0.245 has decimal places;

- a) Two b) Three c) Four d) Five

Q.115 In order to convert a smaller unit into a bigger unit, by the conversion factor.

- a) add b) subtract c) divide d) multiply

Q.116 50% of 140 is

- a) 120 b) 100 c) 80 d) 70

Q.117 The division of a decimal by 100, displaces the decimal point from its original position;

- a) one place left b) one place right
c) two places left d) two places right

Q.118 When two non-parallel lines meet at a common end point, they form a/an _____.

- a) line b) angle c) triangle d) square

Q.119 An angle measuring greater than 180° but smaller than 360° is called a/an ____ angle.

- a) straight b) reflex c) right d) obtuse

Q.120 The supplementary angle of 80° is _____.

- a) 80° b) 100° c) 90° d) 75°

Q.121 A recipe for 6 people uses 300 g of rice. How much rice is needed for 15 people?

- a) 750 g b) 760 g c) 770 g d) 780 g

Q.122 The perimeter of a shape is _____ of all outer boundary sides.

- a) product b) sum c) difference d) division

Q.123 A square based pyramid has _____ triangular faces and 1 square face.

- a) 2 b) 3 c) 4 d) 5

Q.124 _____ is the space occupied by the surface of any 2-D shape .

- a) length b) perimeter c) Area d) Width

Q.125 The m^2 , cm^2 are units of _____

- a) perimeter b) weight c) temperature d) area

Q.126 The formula for finding the area of a rectangle is _____.

- a) $L \times L$ b) $L \times W$ c) $2 \times (L + W)$ d) $4 \times L$

Q.127 If the average of a few quantities is 9 and their sum is 36, then the number of quantities is _____.

- a) 3 b) 4 c) 5 d) 6

Q.128 Average is equal to;

- a) Sum of quantities \div Number of quantities
- b) Number of quantities \div Sum of quantities
- c) Sum of quantities \times Number of quantities
- d) Sum of quantities $+$ Number of quantities

Q.129 Given the equation $5 \div \frac{1}{4} = 20$, which equation is also true?

- a) $\frac{1}{4} \times 80 = 20$
- b) $20 \times \frac{1}{4} = 20$
- c) $\frac{1}{4} \div 5 = 20$
- d) $20 \div 5 = 1/4$

Q.130 A patient is given $1\frac{1}{2}$ teaspoons of medicine in the morning and $2\frac{1}{4}$ teaspoon at night.

How many teaspoons does the patient receive daily?

- a) $3\frac{1}{4}$
- b) $2\frac{1}{4}$
- c) $3\frac{3}{4}$
- d) $\frac{3}{4}$

Q.131 The fraction $\frac{42}{56}$ in simplest form is _____?

- a) $\frac{3}{4}$
- b) $\frac{1}{4}$
- c) $\frac{7}{9}$
- d) $\frac{3}{5}$

Q.132 Solve $\frac{10}{21} + \frac{5}{7}$.

- a) $1\frac{4}{21}$
- b) $2\frac{1}{4}$
- c) $3\frac{3}{5}$
- d) $5\frac{2}{3}$

Q.133 Workout $\frac{7}{9}$ of 288 m

- a) 124 m
- b) 224 m
- c) 324 m
- d) 424 m

Q.134 Which one of these cards gives a different answer from the other two?

A $14 \div \frac{2}{7}$

B $20 \div \frac{5}{12}$

C $26 \div \frac{13}{24}$

- a) Card A
- b) Card B
- c) Card C
- d) All are different

Q.135 I have three sides two of my angles are the same size and two of my sides are the same length. Guess the name:

- a) square
- b) isosceles triangle
- c) equilateral triangle
- d) parallelogram

Q.136 A 2D shape that is being described, "I have four sides. Two of my sides are the same length. The other two sides are the same length. All my angles are 90 degrees." I am _____.

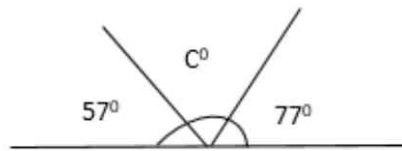
- a) Rectangle
- b) Square
- c) Rhombus
- d) Parallelogram

Q.137 Number of edges in a cube are _____.

- a) 6 b) 8 c) 10 d) 12

Q.138 The value of angle C is:

- a) 36°
b) 46°
c) 56°



Q.139 An airplane travels 1500 km in 3 hours. Its speed is:

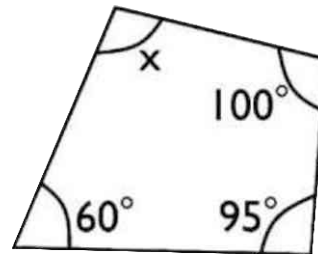
- a) 600 km/hour b) 500 km/hour
c) 400 km/hour d) 300 km/hour

Q.140 A car travelled 70 km in 2 hours, its speed in km/hour is _____.

- a) 35 b) 40 c) 45 d) 50

Q.141 Find the angle x in the following quadrilateral.

- a) 95°
b) 105°
c) 115°



Q.142 How many minutes are there in 3 hour 30 minutes?

- a) 200 b) 210 c) 180 d) 190

Q.143 The length of one rod is 5 m, the length of 5 such rods will be;

- a) 5m b) 10m c) 15m d) 25m

Q.144 Price of 10 books is 550 rupees, the price of 15 such books is;

- a) Rs.655 b) Rs.725 c) Rs.825 d) Rs.925

Q.145 The ratio of boys to the girls in the class is 3 : 4. If there are 27 boys, then the number of girls will be:

- a) 12 b) 36 c) 40 d) 45

Q.146 The fourth proportional of 2,3 and 4 is ;

- a) 2 b) 6 c) 8 d) 12

Q.147 A rectangular cupboard of length 10cm has perimeter 32 cm. Find its width.

- a) 10cm b) 8cm
c) 6cm d) 4cm

Q.148 The area of square of length of side 6cm is;

- a) 12cm^2 b) 14cm^2 c) 24cm^2 d) 36cm^2

Q.149 The expenditure of planting grass at the rate of Rs.10 per square meter in a ground of 144 square meters is;

- a) Rs.144 b) Rs.1440 c) Rs.14.40 d) Rs.1.44

Q.150 The cost of paint at the rate of Rs.100 per meter square in painting a rectangular wall of length 10 meter and width 4 meter is;

- a) Rs.400 b) Rs.4000 c) Rs.2800 d) Rs.3000

Q.151 The mean of the data 4, 6, 2, 2, 3, 5, 8, 2 is _____.

- a) 5 b) 8 c) 4 d) 6

Q.152 if in the given data largest value is 80 and the lowest value is 30. Find the range of the data.

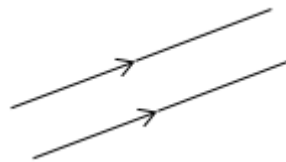
- a) 10 b) 50 c) 80 d) 60

Q.153 The number of seconds in 1 hour = _____.

- a) 3600 b) 180 c) 60 d) 40

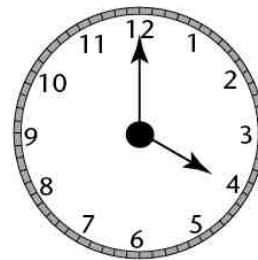
Q.154 The lines drawn in figure are parallel or perpendicular to each other.

- a) Parallel
b) Perpendicular
c) None of these



Q.155 The time on clock is _____.

- a) 12 : 00
b) 2 : 00
c) 4 : 00
d) none of these



Q.156 '0' in whole numbers is called _____.

- a) Multiplicative identity b) Additive identity
c) Additive inverse d) Multiplicative inverse

Q.157 If $25 \div 5 = 5$, then the quotient is

- a) Zero b) 5 c) 25 d) 10

Q.158 Which of the following numbers is divisible by 3 ?

- a) 1512 b) 1645 c) 433 d) 1012

Q.159 On a graph x-axis and y-axis are _____ lines.

- a) parallel b) perpendicular c) same d) none of these

Q.160 HCF of 18, 24 and 30 is;

- a) 36 b) 30 c) 6 d) 120

Q.161 LCM of 6, 8 and 12 is;

- a) 24 b) 48 c) 96 d) 116

Q.162 Which of the following is a prime number?

- a) 10 b) 4 c) 9 d) 7

Q.163 Prime factorization of 56 is;

- a) 14×2^2 b) 7×2^3 c) 28×2 d) 1

Q.164 Which of the following numbers is an even number?

- a) 2103 b) 596340 c) 70539 d) 1111

Q.165 In the order pair (2 , 5), 5 is _____.

- a) y-coordinate b) x-coordinate
c) ordered pair d) origin

Q.166 25% = _____ (in fraction form).

- a) $\frac{1}{4}$ b) $\frac{1}{8}$ c) $\frac{1}{6}$ d) $\frac{1}{2}$

Q.167 The equation of line passing through these points (2 , 4) , (4 , 4) , (5 , 4) is:

- a) $y = 4$ b) $x = 4$ c) $y = 0$ d) $x = 0$

Q.168 HCF of 14, 35 and 98 is;

- a) 70 b) 98 c) 7 d) 12

Q.169 Solve $(+3) \times (-2) =$ _____.

- a) 6 b) -6 c) 1 d) 8

Q.170 $|-4| =$ _____

- a) 4 b) -4 c) ± 4 d) 0

Q.171 -1 _____ 0

- a) = b) < c) > d) none of these

Answer Sheet

	A	B	C	D
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