Dream Scholars League 2014-15
Class V: Mathematics Scholarship Exam: Sample Question Paper

General Instructions:

- There are 60 questions. All questions are compulsory.
- Shade the right answer in the OMR sheet provided A)○ B)● C)○ D)○
- Time allotted is 60 minutes. Total Marks = 60 Marks

Q.1) Find the square of 85.

A) 7225 B) 7025 C) 7125 D) 7325

Q.2) If 31 students are standing in each row and there are 31 rows in all.
Find the total number of students.

A)961 B) 951 C) 941 D) 1041

Q.3) Form the smallest four digit square number by using the digits 2, 4, 0, 1

A) 1240 B) 4120 C) 2410 D) 1024

Q.4) If x = 1 and y = 4, find $(x+y)^2$

A) 20 B) 25 C) 16 D) None of these

Q.5) Percent ages of Savita & Sarita are 16 years & 12 Years respectively. What will be the sum of their ages after 10 years?

A) 48 years B) 38 years C) 28 years D) None of these

Q.6) Light travels at the speed of 3,00,000 km/second. How many seconds does it take to travel from sum of earth if the distance between the two is 15,00,000 km.?

A) 475 seconds B) 450 seconds C) 25 seconds D) 500 seconds

Q.7) A dealer purchased 137 radios. If the cost of one radio is Rs.525, find the cost of all the radios.

A) Rs.72,925 B) Rs.80,125 C) Rs.71,925 D) Rs.71,725

Q.8) If a = 2, b = 4, & c = 1, then which of the following expression has the value zero?

A) a + b + c B) a – b + 2c C) 2c + 2a – 2b D) None of these

Q.9) If g = 2 & h = 3, then which of the following expression has the value greater than 10?

A) 2g + 2h B) g + h – 3 C) gh – 6 D) 2g + 3h

Q.10) If p = -3, q = 2 and r = 4, then find the value of -3p +2q + 3r

A) 13 B) 16 C) 7 D) 25

Q.11) If x = 3, y = 2 and z = -2, then which of the following expression has the value more than 0

A) 2x + y + 4z B) 2x – y + 2z C) 2x + y + 3z D) None of these

Q.12) Find the largest number which divides 38 and 50 leaving reminder 2 in each case.

A) 2 B) 12 C) 10 D) 5

Q.13) The HDF of two numbers is 14 and their LCM is280. Each of the two numbers is greater than 50. Find the numbers.
A) 76 & 50 B) 70 & 56 C) 14 & 280 D) None of these

Q.14) Which two digits in 2466 should be interchanged so that the new number is exactly divisible by 3?
A) 2 & 4 B) 4 & 5 C) 5 & 6 D) None of these

Q.15) LCM & HCF of two numbers are 42 and 7 respectively. If one of them is 21, find the other.
A) 21 B) 42 C) 14 D) 7

Q.16) This year the cost of car increased by 10% of what is was last year. IF the cost is Rs.2,20,000 this year, what was it last year?
A) Rs.2,05,000 B) Rs.2,10,000 C) Rs.2,42,000 D) Rs.2,00,000

Q.17) Ramesh scored 61 out of 100 in Marathi, 93 out of 100 in maths and 56 out of 100 in science. Find out his overall % of marks.
A) 60% B) 70% C) 5% D) 80%

Q.18) An alloy contains 60% of copper and the rest is zinc. What is the amount of zinc in 150 kg of alloy?
A) 60 kg B) 120 kg C) 90 kg D) 80 kg

Q.19) A person bought 50 dozen of bananas for Rs.500/-. Two dozen bananas got spoiled during transport. He sold remaining bananas at the rate of Rs.12 per dozen. Find out his profit / loss in the transaction.
A) Rs.70 B) Rs.66 C) Rs.76 D) Rs.86

Q.20) Five dozen articles were bought at Rs.20 per dozen & were sold at Rs.1.50 each article. What is the profit / loss percent?
A) Loss 10% B) Profit 20% C) Profit 15% D) Loss 15%

Q.21) By selling an article for Rs.100, one gains for Rs.10/-. What is profit percent?
A) 11 1/9 B) 10% C) 9% D) 10%

Q.22) A person sold two articles for Rs.1100/- each. On one he earned 10% profit and on the other he lost 12%. Then which one of the following is true?
A) He made a profit of Rs.50/- overall B) He incurred a loss of Rs.50/- overall
C) No profit / No loss D) None of these

Q. 23) A man purchased 40kg of wheat for Rs.360 and starts selling at Rs.12 per kg. After selling how many kg of wheat will he earn amount equivalent to cost price?
A) 24 kg B) 40 kg C) 30 kg D) None of these

Q.24) Convert the speed of 40m/Second into km/hour.
A) 144 km / hr B) 244 km/hr C) 344 km /hr D) 444 km / hr

Q.25) Average speed of the train is 80km / hr, the distance between place A & place B is 1200 km. How long will it take to reach from place A to place B?
A) 15 hour B) 12 hour C) 16 hour D) None of these

Q.26) The speed of the bus is 50 km / hour. It takes 5 hours 12 minutes to reach its destination. Find the distance travelled.
A) 255 km B) 260 km C) 265 km D) 275 km

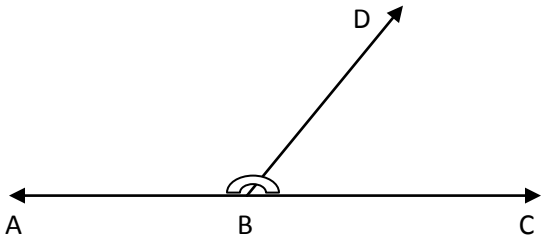
Q.27) A boy walks a distance of 3 1/3 km in 50 minutes. What is his speed in km / hour.
A) 4 km / hour B) 3 km / hour C) 3 ½ km / hour D) 4 ½ km / hour

Q.28) Convert 700m/sec into km/minute.
A) 72000 km/min B) 42 km/min C) 40 km/min D) None of these

Q.29) A cyclist covers a distance of 37 km in 6 hours 10 minutes. How much distance will he cover in 7 hours?
A) 40 km B) 39 km C) 42km D) None of these

Q.30) Two angles are equal & complementary to each other. Find the measure of each.
A) 45^0 B) 90^0 C) 10^0 D) None of these

Q.31) In the given figure below, which two rays are opposite to each other?
A) Ray BD & Ray BC B) Ray BA & ray BC C) Ray BD & Ray BA D) None of these



Q.32) Which of the following pairs of angles is not supplementary?
A) 70^0 20^0 B) 40^0 140^0 C) 70^0 110^0 D) 120^0 60^0

Q.33) If the perimeter of a rectangle is 50 cm and its length is 5 cm greater than its breadth. Find its area.
A) 300 sq.cm B) 50 sq.cm C) 150 sq.cm D) None of these

Q.34) The perimeter of an isosceles triangle is 26 cm. and each of the congruent sides is 8 cm. Find the length of the third side.
A) 8 cm B) 10 cm C) 18 cm D) 2 cm

Q.35) Each side of a regular hexagon is 6.1 cm. Find the perimeter.

A) 36 cm B) 37 cm C) 36.6 cm D) None of these

Q.36) Find the area of a triangle having base 32mm and height 1.1 cm

A) 1760 sq.cm B) 17.6 sq.cm C) 1.76 sq.cm D) 17.6 sq.mm

Q.37) Find the cost of leveling of a ground having length 30m and breadth 20m. If leveling charges are Rs.5 per sq.metere.

A) Rs.3,500 B) Rs.3,000 C) Rs.2,500 D) None of these

Q.38) The floor of a room is rectangular in shape. Its length is 5 metres & breadth is 4 meters. The area of its four walls is 108 sq.m. Find its height.

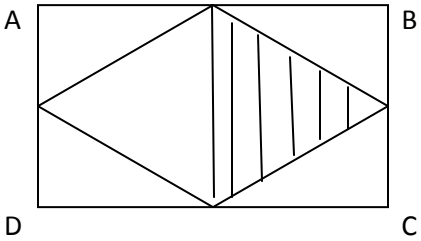
A) 4 m B) 5 m C) 6 m D) 7 m

Q.39) If one side of a square is increased by 50% and the other one is decreased by 50%, then the area of a rectangle will be

A) Greater than a square B) Smaller than a square

C) Remain same D) None of these

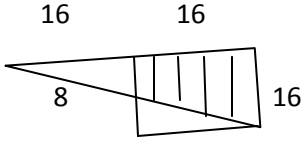
Q.40) The area of the square ABCD is 100 sq.cm. Find the area of the shaded region.



A)50 sq.cm B) 25 sq.cm C) 12.5sq.cm D) 20 sq.cm

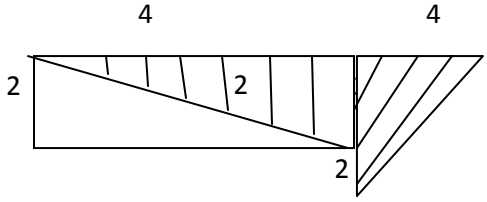
Q.41) Find the area of the shaded region.

A) 256 sq. Units B) 192 sq. units C) 64 sq. units D) None of these



Q.42) Find the area of the shaded region.

A) 8 sq. Units B) 4 sq. units C) 6 sq. units D) 10 sq. units



Q.43) Find 33 1/3 % of 300

A) 100 B) 250 C) 99 D) 9

Q.44) A bus carrying 16 persons was boarded by 3 persons at the first stop. At the second bus stop 12 persons got down and 5 boarded. If 4 persons got down at the 4^{th} which was the last stop, how many got down at the 3^{rd} stop?

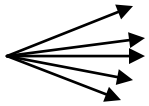
A) 3 B) 4 C) 8 D) 6

Q.45) Find the number in place of box in 3 ¼ + 6 ¼ + ☐ = 10 1/10

A) 5/10 B) 6/10 C) 7/10 D) 8/10

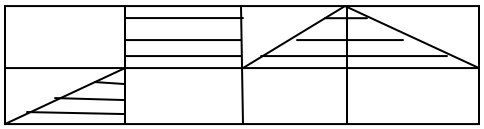
Q.46) How many angles are there in the below figure?

A) 8 B) 9 C) 10 D) 11



Q.47) Represent unshaded portion in fractional form?

A) 5/16 B) 11/16 C) ¼ D) 2.5/16



Q.48) Find the H.C.F of 2923 and 3239?

A) 79 B) 73 C) 47 D) 37

Q.49) In the year 1996 a student saved Rs.1.25 every day beginning from Republic day till Independence day. What is his total saving (including both days)?

A) Rs.266.25 B) Rs.225 C) Rs.265 D) None of these

Q.50) What sum of money will yield an interest of Rs.405 in 3 years at 9% p.a simple interest?

A) Rs.2,100 B) Rs.1,800 C) Rs.4,050 D) Rs.1,500

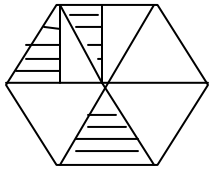
Q.51) A fruit seller buys fruits for Rs.900 and sells it at loss of 12%. How much did he sell the fruits for?

A) Rs.108 B) Rs.800 C) Rs.782 D) Rs.792

Q.52) The perimeter of an equilateral triangle is (24m + 12n) cm. Which of the following can be the measure of its side (in cm)?

A) 4 (2m + n) B) 3 (2m + n) C) 2 (2m + n) D) (2m + n)

Q.53) In the adjoining figure which fraction of the whole is represented by the shaded portion?



A)3/12 B) ¼ C) 1/3 D) 3/8

Q.54) A man buys a cycle for Rs.1500/- He wants to make a profit of 10% on selling it. Find the selling price of the cycle.
A) Rs.1600 B) Rs.1650 C) Rs.1510 D) Rs.1515

Q.55) Find the area of the triangle whose base is 15 cm and the height 18 cm?
A) 270 sq.cm B) 135 sq.cm C) 170 sq.cm D) 33 sq.cm

Q.56) A square and a rectangle have equal perimeter. If the side of the square is 12 cm, then find the sum of length and breadth of the rectangle.
A) 48 cm B) 12 cm C) 20 cm D) None of these

Q.57) A car running with a speed of 60 km/hr covers a distance of 720 km in how many hours?
A) 7 hrs B) 12 hrs C) 6 hrs D) 14 hrs

Q.58) What least number should be subtracted from 300 to make it a perfect square number?
A) 25 B) 17 C) 11 D) 7

Q.59) The area of a rectangle is 384 sq.cm and the breadth of this rectangle is 16 cm. What is its length?
A) 24 cm B) 20 cm C) 16 cm D) 192 cm

Q.60) In the given five digit number 5 * 4 * 3, the * represent the same digit. Which of the the given can be difference between the place value of the digit in place of *?
A) 7070 B) 8910 C) 490 D) 3860