SAINIK SCHOOL CHANDRAPUR

SUMMER VACATION HOMEWORK

MATHEMATICS

Choose the correct option.

1) $(-1)\times(-1)\times(-1)\times$…..500 times =
   a)-1   b) 1   c) 500   d) -500
2) By how much does 5 exceed -4 ?
   a) 1   b) -1   c) 9   d) -9
3) Which of the following is correct?
   a)-12 >-9   b) -12<-9   c) (-12)+9>0   d) (-12)x9>0
4) Start with the integer -8. Add -12 to it, subtract 10 from the result. Divide the result by 3 and multiply the result by -2. What do you get?
   a) 20   b) 8   c) -8   d) 10
5) If a/9 × 9/20 × 4/9 = 1/9, the value of a is
   a) 45   b) 5/18   c) 5   d) 46/9
6) (-35)x2+(-35)x8=
   a) -350   b) -70   c) -280   d) 350
7) If a= (-10)+(-10)+….15 times and b=(-2)x(-2)x….5 times ,then a-b=
   a) 118   b)-118   c) -182   d) 182
8) 1/9 of 1/6 of 1/3 of 56052 =
   a) 356   b) 336   c) 376   d) 346
9) Which of the following is true?
   a) 3/4< 2/3< 12/15 b) 2/3 < ¾< 12/15   c) 2/3, 12/15< 3/4 d) 12/15<2/3<3/4
10) The smallest of the fractions 2/3, 4/7, 8/11 and 5/9 is
   a) 2/3   b) 4/7   c) 8/11   d) 5/9
11) Which of the following fractions is more than one third?
   a)23/70   b) 205/819   c) 26/75   d) 118/335
12) If 14x4=56, then 0.014x4=
   a) 0.56   b) 5.6   c) 0.056   d) None of these
13) 4+4.4+44.4+4.04+444 =
   a) 500.88   b) 577.2   c) 495.22   d) 472.88
14) When 0.48 is written in the simplest form of its terms, the sum of its numerator and denominator is
   b) 148   b) 74   c) 37   d) 147
15) In a charity show Rs 6596 were collected by selling some tickets. If the price of each ticket was Rs 50 3/4. How many tickets were sold?
16) One autumn morning the temperature went up from -3ºC to 5ºC.
   a) By how many degrees did the temperature rise?
   b) During the afternoon the temperature then fell by 6ºC from 5ºC. What was the temperature at end of the afternoon?
17) Compute by suitable grouping
   a) (-50) ×17 × 3× (-2)
   b) 758 + 200 + 142 +(-100)
   c) 185 x (-35) + (-185) x 65
   d) (-19) x 1006
18) A total of Rs 5500 was shown in Reena's account on Monday. She withdraw Rs 750 on Tuesday and deposited Rs 725 on Wednesday. What would be the balance on Thursday?
19) Let a = 12, b = -6 and c = 5. Verify a x (b + c) = a x b + a x c

20) Rehaan climbs 5 stairs every second and then climbs down 2 stairs over the next second. How many seconds will she take to climb 60 stairs.

21) Every floor of a 20 storey building is 5 meter high. If a lift moves 2 meter every second. How long will it take to move from 3rd floor to 15th floor?

22) ¼ liter of milk cost Rs.4. How much would 6 ½ ltr of milk cost?

23) How many buckets of equal capacity can be filled from 586.5 litres of water, if each bucket has capacity of 8.5 litres?

24) Which expression has greater value?
   a) 17÷ 1/30 or 30 ÷ 1/17
   b) 1/10 ÷ ½ or ½ ÷ 1/10

25) A book cost Rs.96 and Mahesh bought 60 such books. By mistake the accountant at the store makes the bill by taking the cost of each book to be Rs.5 less. What is the difference in this bill from what it would have been in reality?

26) Out of -7, -5, -3, 1, 4, 7. Find a pair of integers whose sum is
   a) -2   b) 2   c) 0

27) There are 120 seats in the balcony of a theatre. If this is 1/3 of the total seats, what is the total number of seats in the theater?

28) Which of the integer -12, 6, 4, -2 is closest to zero on the number line?

29) A tree is standing by the side of a building. 2/5 of the height of the tree is above the building. The building is 9 mtr high. What is the height of the tree?

30) Each side of a polygon is 2.5 cm in length. The perimeter of the polygon is 12.5 cm. How many sides does the polygon have?

PROJECT

1. Prepare a chart on " Importance of mathematics in sports"