

GRADE

**7**



QUESTIONS **50**



TOTAL MARKS **100**



DURATION **60 mins**



**Instruction for Students:**

- Read the question carefully before answering.
- Each question has 4 options (A, B, C & D).
- **Grand Finale Marking System:-**  
Each correct answer carries 2 marks.  
For each unattempted question, 2 marks will be deducted.  
For each wrong answer, 2.5 marks will be deducted.
- Grand Finale Result will be declared Online after 45 days from the exam date. To know your Result, login to [www.neltas.com](http://www.neltas.com) and use given Seat Number.

1. What is the reciprocal of  $2\frac{1}{9} \times 1\frac{6}{57}$  ?

(A)  $\frac{21}{3}$

(B)  $\frac{31}{2}$

(C)  $\frac{3}{7}$

(D)  $\frac{3}{5}$

2. Represent the rational number  $\frac{-145}{58}$  in its simplest form.

(A)  $\frac{-5}{3}$

(B)  $\frac{-5}{6}$

(C)  $\frac{-5}{2}$

(D) None of these

3. Find the average of 4.2, 3.04 and 8.3

(A) 6.18

(B) 6.08

(C) 5.08

(D) 5.18

4.  $\sqrt{24,964} =$  \_\_\_\_\_

(A) 156

(B) 154

(C) 158

(D) None of these

5.  $213 - 217 - 29 =$  \_\_\_\_\_

(A) -35

(B) -33

(C) -32

(D) None of these

6. Find average of 112.2 and 50

- (A) 80.1 (B) 8.11  
(C) 81.1 (D) 82.1

7.  $(-2^4)^2 \times 2^2 =$  \_\_\_\_\_

- (A) 1,024  
(B) -1,024  
(C) 1,204  
(D) -1,402

8. ₹5,000 is divided between 3 students A, B and C in the ratio of 5: 3 : 2.  
How much does C get?

- (A) ₹1,500 (B) ₹1,250  
(C) ₹1,100 (D) ₹1,000

9. HCF of 112 and 184 is \_\_\_\_\_

- (A) 4 (B) 8  
(C) 12 (D) 16

10. Find the whole quantity, if 8% of it is 560

- (A) 8,000 (B) 7,000  
(C) 6,000 (D) 1,000

11. A painting is bought for ₹5,000 and sold for ₹6,550. What is the profit percent?

- (A) 31%  
(B) 21%  
(C) 29%  
(D) 35%



12.  $0.8 \times$  \_\_\_\_\_  $= 100.2$

- (A) 122.25  
(B) 123.25  
(C) 124.25  
(D) 125.25

13. A man borrowed ₹8,000 from a bank at 8% per annum.  
What is the amount he has to pay after 5 years?

- (A) ₹11,200  
(B) ₹10,200  
(C) ₹9,880  
(D) ₹11,400



14. Write the co-ordinates of the image of the point A (-5, 2) when reflected across the X axis.

- (A) (5, -2) (B) (2, 5)  
(C) (-5, -2) (D) None of these

15. Which even number between 1 and 10 has a line of symmetry?

- (A) 4 (B) 2  
(C) 6 (D) 8

16. Subtracting  $3xyz$  from the sum of  $-5yzx$  and  $6xyz$  gives \_\_\_\_\_

- (A)  $2xyz$  (B)  $-2xyz$   
(C)  $8xyz$  (D)  $4xyz$

17.  $(a - b)^2 =$  \_\_\_\_\_

- (A)  $a^2 + 2ab + b^2$
- (B)  $a^2 + 3ab + b^2$
- (C)  $a^2 + b^2$
- (D)  $a^2 - 2ab + b^2$

18. The sum of two numbers is 35. If one number exceeds the other by 7, what are the numbers?

- (A) 7, 14
- (B) 12, 19
- (C) 14, 21
- (D) 15, 20

19. If  $s = -8$ ,  $s^2 - 4s =$  \_\_\_\_\_

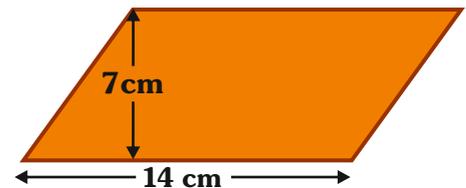
- (A) 106
- (B) 96
- (C) 86
- (D) None of these

20. The difference in the measures of two complementary angles is 12 degrees. Find the angles.

- (A)  $40^\circ, 50^\circ$
- (B)  $35^\circ, 47^\circ$
- (C)  $28^\circ, 40^\circ$
- (D)  $39^\circ, 51^\circ$

21. The base and the corresponding height of a parallelogram are 14 cm and 7 cm respectively. Find the area of the parallelogram.

- (A)  $108 \text{ cm}^2$
- (B)  $98 \text{ cm}^2$
- (C)  $96 \text{ cm}^2$
- (D) None of these



22. The side of a square is 15 cm. Find its area.

- (A)  $225 \text{ m}^2$
- (B)  $250 \text{ cm}^2$
- (C)  $225 \text{ cm}^2$
- (D)  $275 \text{ cm}^2$

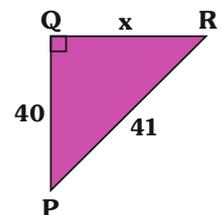


23.  $-198 \times 65 \times 0.44 \times 0 =$  \_\_\_\_\_

- (A) -5,662.8
- (B) 5,662.8
- (C) -5,552.8
- (D) None of these

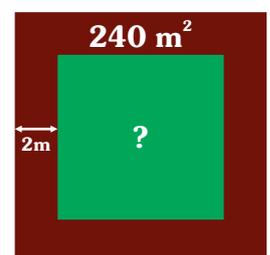
24. Find the unknown side  $x$  of the following right angled triangle:

- (A) 18
- (B) 9
- (C) 19
- (D) None of these



25. A square lawn is surrounded by a path 2 m wide. If the area of the path is  $240 \text{ m}^2$ , find the area of the lawn.

- (A)  $784 \text{ m}^2$
- (B)  $748 \text{ m}^2$
- (C)  $684 \text{ m}^2$
- (D) None of these

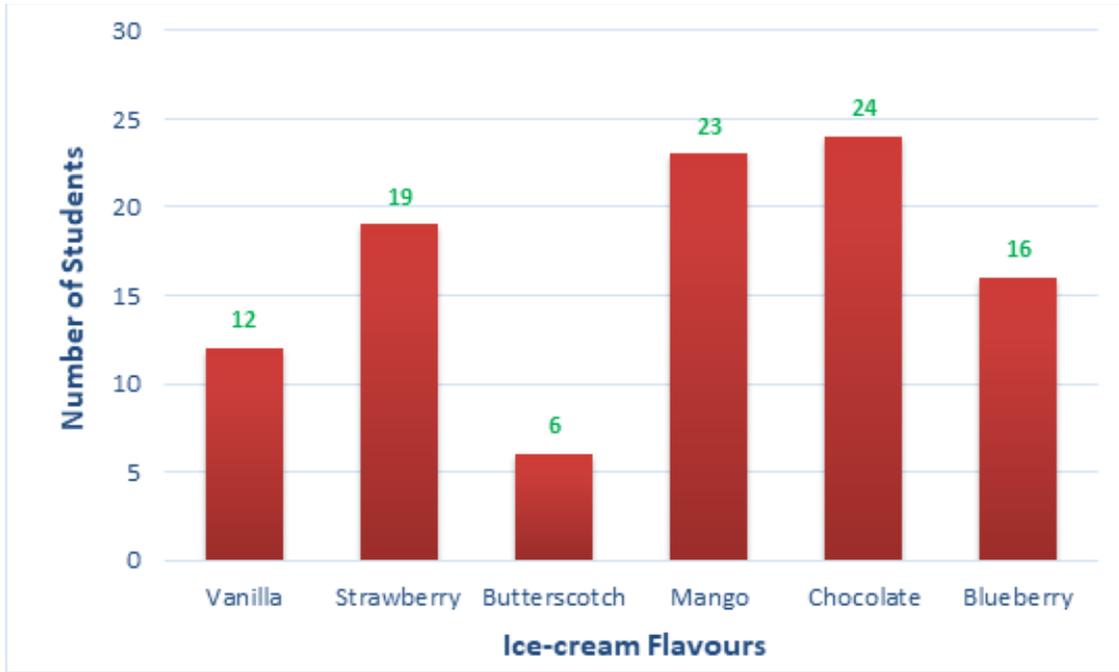


26. Complete the following pattern: 0.2, -0.6, 1.8, -5.4, \_\_\_\_\_

- (A) -15.2
- (B) 16.2
- (C) 17.2
- (D) None of these



A survey to find the favourite ice-cream flavour was conducted on a set of students in an event. Answer questions 27 to 30 based on the bar graph below:



27. How many students are involved in the survey?

- (A) 75
- (B) 80
- (C) 100
- (D) 120

28. Which is the most favourite ice-cream flavour?

- (A) Mango
- (B) Chocolate
- (C) Strawberry
- (D) None of these



29. Which two types of flavours are liked in the ratio of 1 : 4?

- (A) Vanilla and chocolate
- (B) Butterscotch and Blueberry
- (C) Vanilla and Mango
- (D) Butterscotch and Chocolate

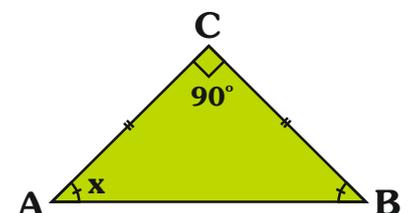
30. Which is the least favourite flavour in this survey?

- (A) Butterscotch
- (B) Vanilla
- (C) Mango
- (D) Blueberry



31. Find angle x in degrees in the given figure.

- (A) 30°
- (B) 45°
- (C) 60°
- (D) 50°



32. In a basket of 87 fruits,  $\frac{1}{3}$  are rotten. How many fruits are fresh?



- (A) 29
- (B) 39
- (C) 58
- (D) 68

33. Compare the rational numbers -4 and  $\frac{3}{2}$  and say which of the following statements is correct.

- (A) -4 is greater than  $\frac{3}{2}$
- (B) -4 comes to the right of  $\frac{3}{2}$  in the number line
- (C) -4 comes to the left of  $\frac{3}{2}$  in the number line
- (D) None of these

34.  $30.045 \div 0.15 =$  \_\_\_\_\_

- (A) 20.03
- (B) 200.3
- (C) 20.3
- (D) None of these

35.  $(-12)^3 =$  \_\_\_\_\_

- (A) -1,728
- (B) 1,728
- (C) -1,628
- (D) None of these

36.  $(-20) \times (-6) \times (-2) =$  \_\_\_\_\_

- (A) -120
- (B) 120
- (C) -240
- (D) 240

37. Find the average of the following: 2.3, 3.4, 4.05, 6.6, 7.77

- (A) 4.834
- (B) 4.348
- (C) 4.824
- (D) 4.884

38.  $(-1)^{529} =$  \_\_\_\_\_

- (A) 0
- (B) 1
- (C) -1
- (D) -11

39. 16:18 and 8:9 are in proportion. Say true or false.

- (A) FALSE
- (B) TRUE
- (C) Cannot say
- (D) None of these

40. Find the LCM of 15, 30, 105.

- (A) 120
- (B) 105
- (C) 210
- (D) 201

41. A shop has 85 pastries of which 17 has eggs.  
What percentage of the pastries are eggless?



- (A) 70%
- (B) 75%
- (C) 80%
- (D) 85%

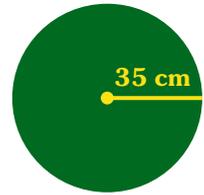
42. Find the cost price if there is a loss of ₹5,300 on selling an article at ₹10,000

- (A) ₹4,700
- (B) ₹15,600
- (C) ₹15,300
- (D) None of these

Selling Price	₹10,000
Cost Price	?
LOSS	₹5,300

43. Find the circumference of a circle with radius of 35 cm.

- (A) 210 cm
- (B) 220 cm
- (C) 190 cm
- (D) 230 cm

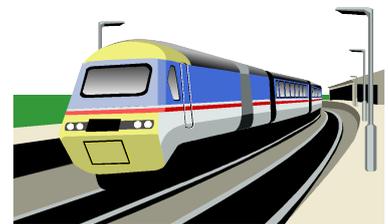


44. If ₹100 becomes ₹200 in 5 years with simple interest, then the rate of interest is \_\_\_\_\_

- (A) 30%
- (B) 50%
- (C) 20%
- (D) 40%

45. A 240m long train crosses a platform double its length in 54 seconds. What is the speed of the train?

- (A) 15 m/s
- (B) 13.5 m/s
- (C) 13.33 m/s
- (D) 15.33 m/s



46. A and B together can do a piece of work in 15 days, while B alone can finish it 20 days. In how many days can A alone finish the work?

- (A) 30 days
- (B) 15 days
- (C) 60 days
- (D) 75 days

47. Find the value of  $b + 110$ , if  $b = 11$ .

- (A) 111
- (B) 122
- (C) 211
- (D) 121

48.  $(19ab - 9a) - (9a - 19ab) =$  \_\_\_\_\_

- (A)  $0a + 0ab$
- (B)  $38ab + 18a$
- (C)  $18a$
- (D)  $38ab - 18a$

49. Solve for x:  $2x - 4 = 6$

- (A)  $x = 6$
- (B)  $x = 5$
- (C)  $x = -6$
- (D)  $x = -5$

50. Five years from now Sam will be  $1\frac{1}{2}$  times his present age. How old is he now?

- (A) 20
- (B) 10
- (C) 5
- (D) 15

**ANSWERS**

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
C	C	D	C	B	C	A	D	B	B
<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>
A	D	A	C	D	B	D	C	B	D
<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>
B	C	D	B	A	B	C	B	D	A
<b>31</b>	<b>32</b>	<b>33</b>	<b>34</b>	<b>35</b>	<b>36</b>	<b>37</b>	<b>38</b>	<b>39</b>	<b>40</b>
B	C	C	B	A	C	C	C	B	C
<b>41</b>	<b>42</b>	<b>43</b>	<b>44</b>	<b>45</b>	<b>46</b>	<b>47</b>	<b>48</b>	<b>49</b>	<b>50</b>
C	C	B	C	C	C	D	D	B	B