Learn Basics - Lotus Public School

LaPIS Diagnostic Test - Class 6

Mathematics - Question Paper Code - 602
Roll Number _____

2 hours **40 marks**

INSTRUCTIONS

1. *How to fill the roll number*
   - *It is instructed to the students to write your roll number in the boxes and shade the corresponding bubble in the omr sheet.*
   - *Kindly ensure, the roll number always have 6 numeric characters.*

2. *How to fill the question paper code*
   - *It is instructed to the students to write the question paper code in the boxes which is given in the question paper and shade the corresponding bubble in the OMR sheet.*
   - *Kindly ensure, the question paper code always have 3 numeric characters.*

3. *General Instructions*
   - *The question paper consists of 40 questions.*
   - *Each question carries .*
   - *Total duration of examination is 2 hours.*
   - *All questions in the booklet are objective type.*
   - *For each question, five options are given whereas option e indicates yet to learn / I will learn later.*
   - *It is instructed to the students to use black ball point pen to shade the correct answer in the OMR sheet.*

Question 1: Find the place value of 8 in 248753.

(a) Thousand (b) Ten thousand (c) Hundred (d) Lakh

Question 3: Find the LCM of 25, 60 and 10.

5Match the following : i – b, ii – c, iii - a   i – c, ii – b, iii - a   i – b, ii – a, iii - c   i – c, ii – a, iii - b

	Properties		Equation
i	associative	a	$ab + ac = a(b + c)$
ii	commutative	b	$a + (b + c) = (a + b) + c$
iii	distributive	c	$a + b = b + a$

Question 6: Identify the greatest integer among the following options.

(a) -176   (b) -19   (c) -1   (d) -564

Question 7: Which of the following option is an equivalent fraction of $\frac{6}{9}$?

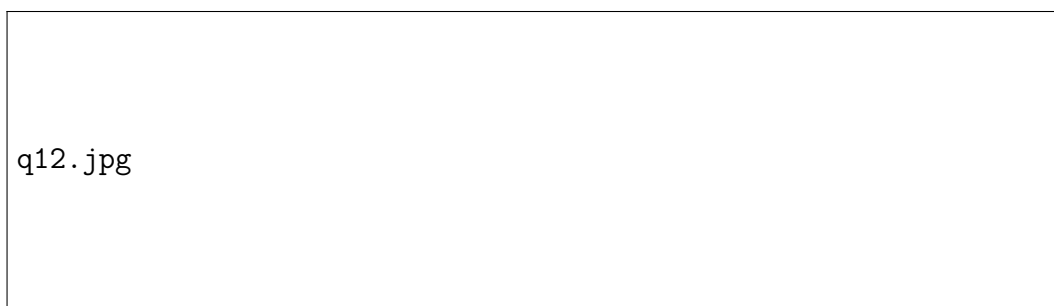(a) $\frac{36}{54}$ (b) $\frac{24}{18}$ (c) $\frac{12}{18}$ (d) Both a and c

Question 8: Find the Improper fraction.

(a) $\frac{3}{9}$ (b) $\frac{82}{99}$ (c) $\frac{45}{96}$ (d) $\frac{52}{36}$

Question 9: State true or false. $2\frac{1}{3} - \frac{2}{3} = \frac{16}{3}$

(a) True   (b) False

Question 10: Choose the fraction representing the shaded portion of the figure shown below.

(a) $\frac{1}{7}$ (b) $\frac{2}{7}$ (c) $\frac{5}{7}$ (d) $\frac{3}{7}$

Question 11: Express $\left(300 + 60 + 9 + \frac{7}{10} + \frac{2}{100}\right)$ in decimal.

(a) 36.972   (b) 369.72   (c) 379.72   (d) 356.72

Question 12: $33.54 + 0.007 - 2.4 = $ _____

(a) 31.127   (b) 31.147   (c) 31.157   (d) 31.527

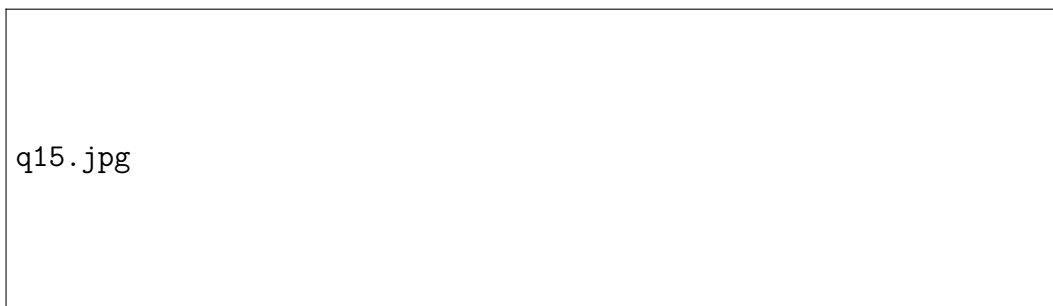**Question 13:** Find out the wrong pair.

(a) $0.96 > 0.92$ (b) $0.054 > 0.6$ (c) $0.4 < 0.6$ (d) $78.9 > 66.4$

Question 14: How many variables are present in the expression $5x + 4y - 3z + 2x - y$?

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

Question 15: Match the following:

(a) i-c, ii-b, iii-a   (b) i-a, ii-b, iii-c   (c) i-a, ii-c, iii-b   (d) i-b, ii-c, iii-a

Question 16: The cost of a bat is Rs. $8x$ and the cost of a ball Rs.$5x$. Find the total cost of a bat and a ball ?

(a) Rs. $40x$ (b) Rs $13x$ (c) Rs. $40x^2$ (d) Rs. 40

Question 17: The number of blue balls is 125 less than the number of green balls. If the total number of balls is 275, then find the number of green balls.

(a) 450   (b) 900   (c) 200   (d) 175

Question 18: Find the ratio of 2kg to 800g in simplest form.

(a) 2:800   (b) 1:400   (c) 5:2   (d) 2:5

Question 19: Anu and Abi ate chocolates in the ratio 4:9.If Abi ate 36 chocolates, then find the number of chocolates Anu ate?

(a) 16 chocolates   (b) 81 chocolates   (c) 72 chocolates   (d) 56 chocolates

Question 20: Find the odd one out using the idea of equivalent ratio.

(a) 3:7 and 3:8   (b) 10:5 and 20:15   (c) 3:6 and 6:12   (d) 1:5 and 7:11

Question 21: If one milkshake costs Rs.35,how many milkshakes can be bought for Rs.140?

(a) 4   (b) 8   (c) 5   (d) 10

Question 22: Find the value of x in the following proportion. $10 : 8 :: x : 24$

(a) 30   (b) 35   (c) 100   (d) 50

Question 23: Fill in the blanks with correct symbol.$(136 + 19)$ ——————— $(173 - 28)$

(a) $<$ (b) $>$ (c) $=$ (d) None

Question 24: State whether the following statement is true or false. Zero is a natural number as well as whole number

(a) True   (b) False

Question 25: State whether the following statement is true or false.The quotient of $1584 \div 3$ even number.

(a) True   (b) False

Question 26: How many lines of symmetry can be drawn in circle?

(a) Two   (b) Four   (c) Infinite   (d) Twenty

Question 27: Perpendicular bisector of a line intersect at —————

(a) $45°$ (b) $90°$ (c) $180°$ (d) $0°$

Question 28: Match the following: Hint : l = length, b = breadth, a = Side length

q28.jpg

(a) i- c, ii - b, iii – d, iv - a (b) i- d, ii - a, iii – b, iv - c
(c) i- d, ii - b, iii – a, iv - c (d) i- b, ii - a, iii – d, iv - c

Question 29: Find the area of a rectangular box whose length is 45m breadth is 31m.

(a) 76 m^2 (b) 152 m^2 (c) 1395 m^2 (d) 2025 m^2

Question 30: Match the following:

q30.jpg

(a) i- b, ii - c, iii - a *(b) i- a, ii - c, iii - b*
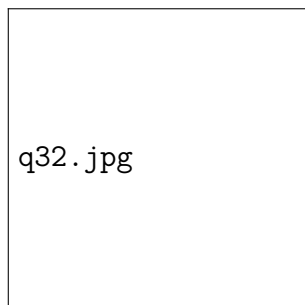*(c) i- c, ii - b, iii – a* *(d) i- a, ii - c, iii - b*

Question 31: What does the given figure represent ?

q31.jpg

(a) Non intersecting lines (b) Parallel lines
(c) Perpendicular lines (d) Intersecting lines
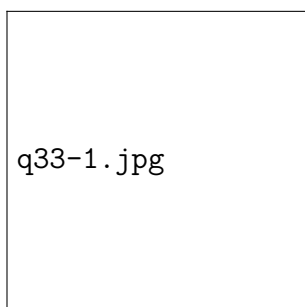
Question 32: Name the angle formed in the figure ?

(a) ∠ROT (b) ∠ORT (c) ∠OTR (d) ∠RTO
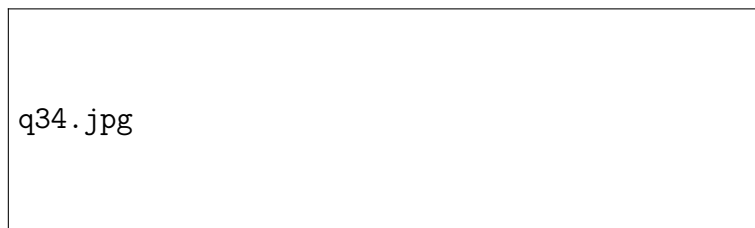
Question 33: Match the following:

(a)

(b)

(a) i- a, ii - b, iii - c (b) i- b, ii - c, iii - a
(c) i- c, ii - b, iii – a (d) i- a, ii - c, iii - b

Question 34: Match the following:

(a) i- c, ii - a, iii - b   (b) i- b, ii - c, iii - a
(c) i- c, ii - b, iii – a   (d) i- a, ii - b, iii - c

Question 35: Match the following:

q35.jpg

(a) i - b, ii - c, iii - a   (b) i - c, ii - a ,iii - b
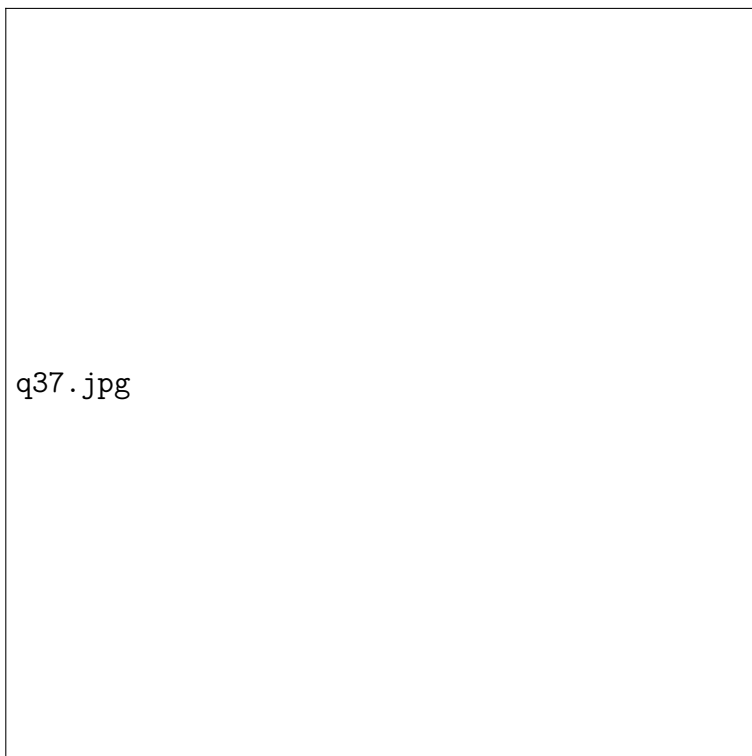(c) i - c, ii - b, iii – a   (d) i - a, ii - c, iii - b

Question 36: Find the odd one.

(a) Scalene triangle - three unequal sides   (b) Isosceles triangle - two equal sides
(c) Equilateral triangle - three equal sides   (d) Right angled triangle – all sides equal

Question 37: Match the following.

q37.jpg

(a) i – b, ii – c, iii – a, iv - d
(b) i – c, ii – b, iii – a, iv - d
(c) i – c, ii – d , iii – b, iv - a
(d) i – b, ii – a, iii – c, iv - d

Question 38: Represent number 8 in tally marks ?

q38.jpg

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

Question 39: In which subject Aadhan scores the highest mark, when a cup = 1mark ?

q39.jpg

(a) English   (b) Maths   (c) Science   (d) Tamil

Question 40: Find the difference in number of children who like red colour and blue colour?

q40.jpg

(a) 20   (b) 140   (c) 60   (d) 80