LA CENTRE FOR EDUCATION

SARALA BIRLA GROUP OF SCHOOLS
SENIOR SECONDARY CO-ED DAY CUM BOYS' RESIDENTIAL SCHOOL
PERIODIC TEST-2 (2024-25)
MATHEMATICS (041) Answer keys

B K BIRLA CENTRE
FOR EDUCATION
(Sarala Birla Group of Schools)

INDIAN PUBLIC SCHOOLS'
CONFERENCE

Class : VI   Duration: 1 Hrs.
Date   : 04.12.2024   Max. Marks: 25
Admission No.:   Roll No.:

General Instructions:
Questions 1 to 5 are 1 mark each.
Questions 6 to 9 are of 2 marks each.
Questions 10 and 13 are of 3 marks each.

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SECTION-A $(5 \times 1 = 5)$

</div>

Choose the correct answer.

1) Which of the following is a fraction equivalent of 2/3?

   a) 4/5   b) 8/6   c) 10/25   d) **10/15**

2) Which of the following is a proper fraction?

   a) 4/3   b) **3/4**   c) 13/4   d) 21/5

3) The simplest form of 15/75 is _____.

   a) **1/5**   b) 1/4   c) 1/2   d) None of these

4) Which of the following is the place value of 3 in 4.375?

   a) **3/10**   b) 3/100   c) 3/1000   d) None of these

5) Which one of the following is smaller

   a) 2.031   b) 2.031   c) **0.2301**   d) 23.01

<div align="center">

SECTION- B $(4 \times 2 = 8)$

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6) Write the natural numbers from 2 to 12. What fraction of them are prime numbers?

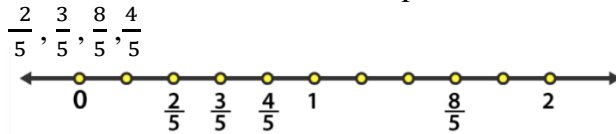   Natural numbers from 2 to 12 are 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 and 12

   Then prime numbers are 2, 3, 5, 7 and 11

   So,5 numbers are prime among the 11 numbers

   Therefore, 5/11 of them are prime numbers.

   Answer: 5/11

7) Draw number lines and locate the points on them :

$\dfrac{2}{5}, \dfrac{3}{5}, \dfrac{8}{5}, \dfrac{4}{5}$

8) Rashid spent Rs35.75 for Maths book and Rs32.60 for Science book. Find the

total amount spent by Rashid. Cost of Maths book = ₹ 35.75

Cost of Science book = ₹ 32.60

The total amount spent by Rashid is

$\quad\quad$ 35.75 $\quad$ ____(1)

$\quad\quad$ + 32.60

$\quad\quad$ 68.35

∴ The total amount of money spent by Rashid is ₹ 68.35. ____(1)

OR

Which is greater?

(i) 5.31 (>) 5.28 $\quad$ ____(1)

(ii) 6.321 (>)6.312 ____(1)

9) Subtract: 9.756 – 6.28

$\quad\quad$ = 3.476 $\quad\quad$ (2)

SECTION- C $\quad\quad\quad\quad$ (4 × 3 = 12)

10) Savita bought 2/5 m of ribbon and Kavita ¾ m of the ribbon. What was the total length of the ribbon they bought?

Ribbon length bought by Sarita = 2/5 metre

Ribbon length bought by Lalita = 3 / 4 metre

Total length of the ribbon bought by both of them = 2 / 5 + 3 / 4 ____(1)
Taking LCM 20

= [(2 × 4) + (3 × 5)] / 20 ____(1)
= (8 + 15) / 20

= 23 / 20 metre ____(1)

∴ Total length of the ribbon bought by both Sarita and Lalita is 23 / 20 metre

11) Solve: $4\frac{2}{3} + 3\frac{1}{4}$

   = [(3 × 4) + 2] / 3 + [(3 × 4) + 1] / 4 _____(1)

= 14 / 3 + 13 / 4

= [(14 × 4) + (13 × 3)] / 12 _____(1)

= (56 + 39) / 12

= 95 / 12 _____(1)

<div align="center">OR</div>

11) Express the following as per directed:
     a) $\frac{28}{5} = 5\frac{3}{5}$ _____(1)
     b) $9\frac{3}{7}$ = (9 × 7 + 3) / 7 = 66 / 7
     ∴ The improper form is 66 / 7 a) _____(1)
     c) $\frac{3}{5}$ (<) $\frac{5}{7}$ (Compare :>,<,=) _____(1)

12) Express the following as per directed:
  a) 725 paise
     = 725 / 100 rupees
     = Rupees 7.25 _____(1)

  b) 40 km 5 m = [(40 + 5 / 1000)] km
          =40.005 km_____(1)

  c) 93 mm = 93 / 10 cm
         = 9.3 cm_____(1)

13) Raju bought a book for Rs35.65. He gave Rs 50 to the shopkeeper. How much money
   did he get back from the shopkeeper?
   Money given to shopkeeper = ₹ 50.00 _____(1)
   Price of the book = ₹ 35.65
 The money Raju will get back from the shopkeeper will be the difference between these two.
  ∴ The money left with Raju is
          50.00
        − 35.65   _____(1)
        ‾‾‾‾‾‾‾‾‾
        14.35   _____(1)

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