1. Renu bought 3 pens costing ₹12 each. She gave ₹50 to the shopkeeper. Which of the following would give the amount of money that the shopkeeper should return to her?
   A. \((3 \times 12) - 50\)
   B. \(50 + (3 \times 12)\)
   C. \(50 + 3 + 12\)
   D. \(50 - (3 \times 12)\)

2. Rekha and family planned a week-long trip to Rajasthan. They travelled 300 km each for the first 4 days and 250 km each for the last 3 days. What is the total distance covered by them during this trip?
   A. 1950 km
   B. 1900 km
   C. 3850 km
   D. 500 km

3. Isha studies in grade 4. Her morning schedule is as follows.
   - 6:30 a.m.: She wakes up
   - She spends:
     - 15 minutes in the washroom
     - 10 minutes to get ready
     - 10 minutes to pray
     - 10 minutes to finish her breakfast
     - 30 minutes to revise her lessons, and then leaves for school.
   At what time does Isha leave for school?
   A. 8.00 a.m.
   B. 7.30 a.m.
   C. 7.45 a.m.
   D. 8.05 a.m.
4. Ramanathan, a farmer, borrowed ₹ 1,04,400 from a friend. He has to pay this amount within 3 years in equal monthly installments. How much money does he have to pay for each of his monthly installments?

A. ₹ 29
B. ₹ 2900
C. ₹ 34,800
D. ₹ 22,100
CLASS 6

1. Students from Grades 5 to 8 contributed towards the Flood Relief Fund as follows:
   - Grade 5 contributed $\frac{1}{3}$rd of the fund
   - Grade 6 contributed $\frac{1}{6}$th of the fund
   - Grade 7 contributed $\frac{1}{7}$th of the fund
   - Grade 8 contributed $\frac{1}{5}$th of the fund
   If the amount collected by each grade was the same, which grade's contribution was the highest?
   A. Grade 6
   B. Grade 5
   C. Grade 7
   D. Grade 8

2. A doctor prescribed an antibiotic to Anu for 6 days. The dosage was 5 mL in the morning and 5 mL in the evening.
   The medicine is available only in bottles of 30 mL capacity. How many bottles should Anu buy for 6 days (assuming there is no wastage)?
   A. 5 bottles
   B. 3 bottles
   C. 2 bottles
   D. 6 bottles

3. Sujay and Kabir are discussing the fractions shown in the figures below.
   Sujay: In the figure, $\frac{3}{4}$th part of the whole is shaded.
   Kabir: The shaded part is an equivalent fraction of $\frac{3}{4}$.
   Identify the figure both of them are referring to.
   A.  
   B.  
   C.  
   D.  

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4. Varun, Sneha, and Anju shared a pizza. Varun ate 2/8th of the pizza, Sneha ate 5/8th of the pizza, and Anju ate the rest of it.

Who got the minimum share?

A. Sneha
B. Anju
C. Varun
D. Anju and Varun
CLASS 7

1. The temperature of place A is -3 °C. The temperature of place B is three times the temperature of place A. The temperature of place C is twice the temperature of place B. What are the temperatures of place B and C respectively?

   A. -9 °C, -6 °C
   B. -9 °C, -18 °C
   C. 9 °C, 18 °C
   D. -6 °C, -18 °C

2. Select the option that indicates the correct algebraic expression for the following statement:
   “Five times the cube of x decreased by four times the square of y increased by z and increased by seven”

   A. 5x^3 - 4y^2 + z + 7
   B. 5x^3 - 4y^2 + z + 7
   C. 5x - 4y^2 + 7z
   D. x^3 + y^2 + 16

3. Observe the following diagram and identify the pairs that form complementary angles, supplementary angles, adjacent angles, and vertically opposite angles.

   A. Complementary angles: 3, 4
      Supplementary angles: 1, 2
      Adjacent angles: 2, 3
      Vertically opposite angles: 1, 3

   B. Complementary angles: 5, 4
      Supplementary angles: 1, 2
      Adjacent angles: 2, 3
      Vertically opposite angles: 1, 3
C. Complementary angles: 3, 4
   Supplementary angles: 1, 2
   Adjacent angles: 2, 4
   Vertically opposite angles: 1, 3

D. Complementary angles: 3
   Supplementary angles: 1
   Adjacent angles: 2
   Vertically opposite angles: 4

4. Raju’s grandfather has a dog on his farm. He ties it to a coconut tree whenever he has guests visiting.
   The length of the leash from the knot to the dog’s collar is 7 m. But the dog gets restless if it is tied up. It goes around the tree pulling the leash as far as it can go and makes a complete circle.
   (i) What is the approximate total distance the dog would cover in one complete circle around the tree?
   (ii) What is the approximate area of that circle?

A. (i) 154 m² (ii) 44 m
B. (i) 14 m (ii) 49 m²
C. (i) 44 m (ii) 154 m²
D. (i) 44 m² (ii) 154 m
CLASS 8

1. The reciprocal of \((2/7 \times 21/11) - (9/16 \div 3/4)\) is
   A. -9/44
   B. -44/9
   C. 44/9
   D. 9/44

2. Express 34 as the sum of two parts such that \((4/7)\)th of one part is equal to \((2/5)\)th of the other part.
   A. 17 + 17
   B. 14 + 20
   C. 10 + 24
   D. 20 + 10

3. Factorize the expression \(121a^2-b^2+4bc-4c^2\) using the following two identities:
   \[a^2-b^2=(a+b)(a-b)\]
   \[a^2-2ab+b^2=(a-b)^2\]
   A. 22a
   B. \((11a+b-2c)(11a-b+2c)\)
   C. \((11a-b+2c)(11a-b-2c)\)
   D. \((11a+b)(11a-b)+4bc-4c^2\)

4. Consider the following experiment.

<table>
<thead>
<tr>
<th>Experiment 1</th>
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<tr>
<td>A coin is tossed.</td>
<td>A die is rolled.</td>
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<tr>
<td>Event P: A head appears</td>
<td>Event A: A prime number appears</td>
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<tr>
<td>Event Q: A tail appears</td>
<td>Event B: Number 6 appears</td>
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Based on the above experiment, identify the correct statement(s).

(i) Events P and Q are equally likely because head and tail have equal chance of appearing when a coin is tossed.

(ii) Events P and Q are uncertain events.
(iii) Events A and B are equally likely as the chances of getting a prime number and getting a six are equal.

(iv) Events A and B are not equally likely as event A \{2, 3, 5\} is thrice more likely to occur than event B \{6\}.

A. (i) and (iv)
B. (ii) and (iii)
C. Only (iii)
D. Only (ii)
## Answer Key

### Class 5

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### Class 6

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