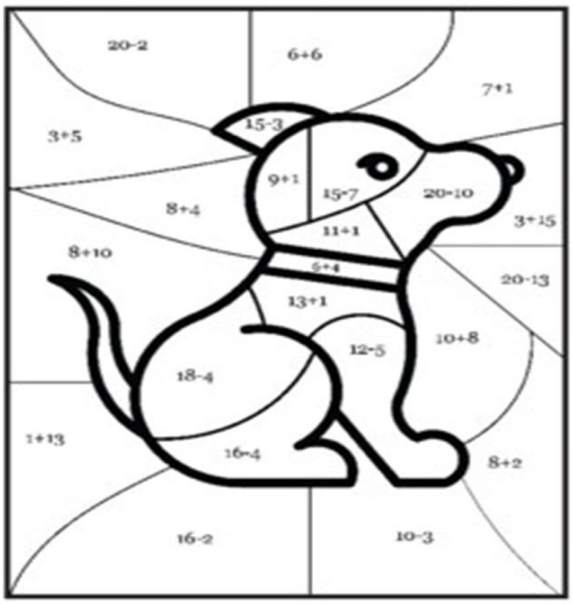
Mathematics Vacation Assignments 2026

Class	Topic
STD I	**1.Draw a Grid from 1 to 50. select any 5 numbers and colour them green. What comes just before each number, colour them red and what comes just after each number, colour them blue.** **2)** **The Advanced Number Scramble** **Instructions: Unscramble the letters in Column I to find the number name. Then, draw a line to match it to the correct numeral in Column II.** EENTIFF — 100 VENESTY — 13 YTROF — 80 DUNHERD — 15 NEHITERT — 40 TIEGHY — 70 **3) Colour by number** 14 = orange 7 =red 8 = yellow 12 = purple 18 = green 10 = blue 

Std II

Rupa is celebrating her birthday with friends.

1. Number of balloons ☐
   Number of caps ☐
   Total number of balloons and caps ☐+☐=☐

2. Total number of gifts ☐

   Tom and Tina has one gift each. How many gifts are left on the table? ☐ - ☐ = ☐

3. All the 4 friends in the party has 2 legs each.How many legs are there in total?

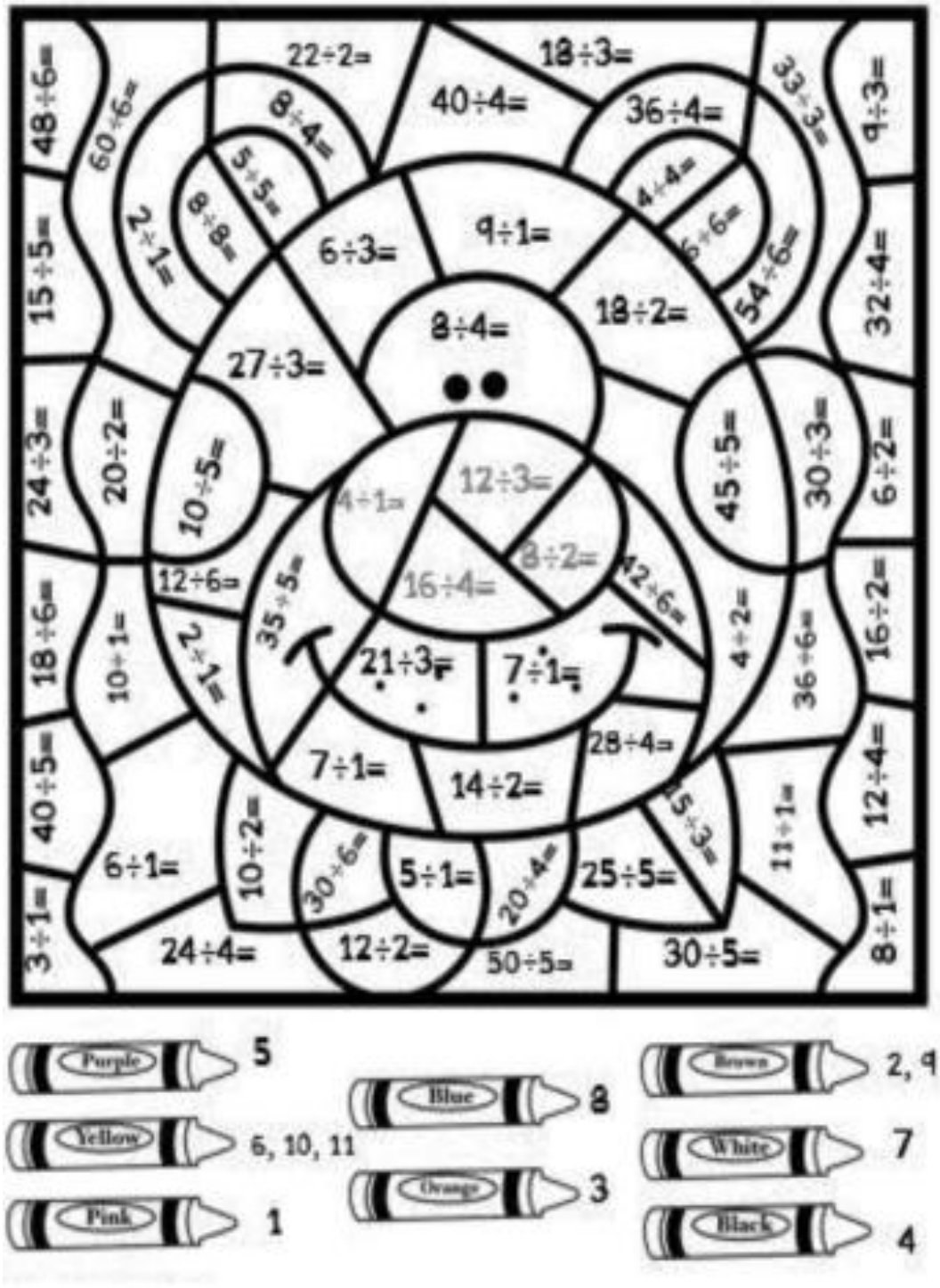
   ☐ × ☐ = ☐

4. There are 8 cupcakes. Share it among 4 friends. How many cupcakes will each friend get?

    ☐

5. Mention the time shown in the clock.

   _____ O'clock

Std III	**Colour by division** Colour the picture using the key given below. 

Std IV	The Story of Hari’s Small Farm Hari lives in a small village and owns a rectangular vegetable garden. The length of his garden is 12 meters and the width is 8 meters. To protect his plants from goats, he needs to put a wire fence around the entire boundary. To buy the fencing wire, Hari needs money. He decides to sell some "junk" items he has collected at home. He goes to Dinu’s Big Shop with his collection: 32 kg of Newspaper (Dinu pays ₹6 for 1 kg of newspaper) 5 kg of Plastic (Dinu pays ₹14 for 1 kg of plastic) Hari also knows that the fencing wire costs ₹20 per meter. He needs to calculate if the money he gets from selling junk will be enough to buy the wire for his garden. What is the total length of the boundary (perimeter) of Hari’s rectangular garden? The Square Alternative: If Hari’s garden was a square with each side measuring 10 meters, would the boundary be longer or shorter than his current rectangular garden? Show your calculation. How much money will Dinu pay Hari for 32 kg of newspaper? How much money will Hari get for his 5 kg of plastic? What is the total amount of money Hari earns from Dinu’s shop? Does Hari have enough money from his junk sales to buy the wire? If not, how much more money does he need? Draw a neat diagram of Hari's rectangular garden. Use a scale where 1 cm=1 meter (so your drawing will be 12 cm by 8 cm). The Bill: Create a formal "Bill" for Dinu’s Shop showing the items,

<table>
<tr><td></td><td>rates, and total cost on a piece of paper .</td></tr>
<tr><td>Std V</td><td>Design your Dream play ground
Create a play ground with at least 2rectangles and 1 square
Label its dimensions
Calculate perimeter and Area of each shape.Calculate total area of playground
Draw and Colour your design
Write a short paragraph about your playground</td></tr>
<tr><td>Std VI</td><td>During the Mathematics Adventure Camp, students participated in different mathematical activities like number puzzles, measuring the playground, and analysing data.
Early in the morning, the temperature at the campsite was –12°C. By afternoon, the temperature increased by 18°C.
At the number puzzle stall, students were given the numbers 31, 45, 37, 51, and 29 and were asked to identify prime numbers.
In another game called Number Play, students observed the pattern:
3, 6, 11, 18, 27, …
Later, a large rectangular ground was used for the activities.
The length of the ground was 150 m and the breadth was 90 m.
During lunch break, a large cake was shared among three groups.
Group A ate 2/5 of the cake.
Group B ate 1/4 of the cake.
Group C ate 1/10 of the cake.
At the end of the day, the teacher recorded the number of problems solved by students during the camp.

<table><tr><th>Student</th><th>Problems Solved</th></tr><tr><td>Rahul</td><td>28</td></tr><tr><td>Meera</td><td>32</td></tr><tr><td>Asha</td><td>26</td></tr><tr><td>Kiran</td><td>34</td></tr><tr><td>Riya</td><td>30</td></tr></table>
Questions</td></tr>
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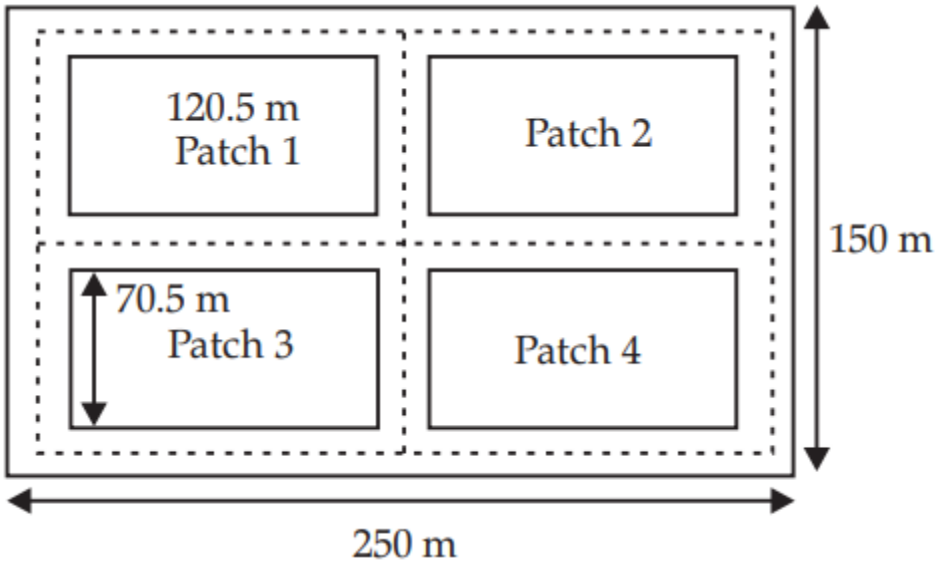
	1. Find the temperature at the campsite in the afternoon. 2. Identify the prime numbers from the given list: 31, 45, 37, 51, 29 3. Write the prime factorisation of 45. 4. Find the next number in the pattern 3, 6, 11, 18, 27, … 5. Find the perimeter of the rectangular ground. 6. Find the area of the ground. 7. Find the total fraction of cake eaten by the three groups. 8. How much cake is left? 9. Find the total number of problems solved by the students. 10. Find the average number of problems solved. 11. Which student solved the maximum number of problems?

Std VII	1. Riya is 5 years younger than her brother Aryan. The sum of their ages is 27 years. a. If Aryan's age is x, write an expression for Riya's age. b. Form a linear equation to find their current ages. c. Calculate their ages after three years. 2. One day I went to my colony park. There were many people all busy in their routine. I found there were 150 people. I saw that 18 people were jogging, 24 people were doing yoga, 36 people were doing laughter therapy and the rest of people preferred to walk. a. What percent of people were jogging? b. What percent of people were doing Yoga? c. What percent of people were walking? 3.Given below is the map of a society park  The park has four grass patches of equal area. The length of each patch is 120.5 m and the breadth of each patch is 70.5 m. The dotted line represents the path for running and jogging. a. What is the perimeter of grass patch 1?

	b. What is the area of the running and jogging path? c. Two sitting benches are installed in the grass patches. The seat of each bench is of length 1.2 m and width 0.7 m. How much area is reserved for sitting in the park? d. The patch 2 is divided diagonally into two triangles of equal areas. Tulips are planted in one triangular area. What is the area in which the tulips are planted? 4. A shopkeeper bought a chair for ₹1200 and sold it for ₹1500. a. Calculate the profit made by the shopkeeper? b. Calculate the profit percentage? c. If he sells another chair for a loss of 10% , calculate the selling price?

Std VIII	I. A playground is in the shape of a square. The area of the square PQRS is 256 m^2 with each side (x + 2) m. One day Suraj along with his two friends Ajay and Aman went to play there with bicycle. Someone stole Suraj's bicycle, but Ajay and Aman helped him by contributing ₹(4y + 60) and ₹(6y + 10) respectively, to buy a new bicycle. The cost of the bicycle was ₹4200. On basis of this information given in passage answer following questions. a) Find the value of x. b) Find the length of the side of the playground. c) Find the perimeter of the playground. d) Find the value of y. e) What was the amount given by Ajay and Aman to Suraj? II. Two brothers Anuj and Sanoj started a business together. They decided to share the capitals depending upon the variable expenditure. The capital of two brothers together is given by the polynomial $p^2 + 10p + 21$, which is the product of their individual share factors. a) What is the individual share of both the brothers? b) What is their capital amount? c) If they changed the capital to $6a^2 + 11a - 35$, what is the share of each partner?

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