



START UP MATHEMATICS

ACTIVITY BOOK



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**NEP-Aligned
Skill Development and Practice**

- Discovery, discussion and analysis-based learning
- Interdisciplinary and co-curricular strategy
- HOTS, critical thinking and problem solving
- Life skills
- Experiential learning promoting exchange of ideas
- Precisely mapped with Start Up Mathematics coursebook



Effective **NEP**
implementation
tools for learning
mathematics

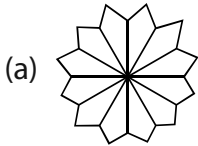
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Understanding Decimals

Observe and Answer

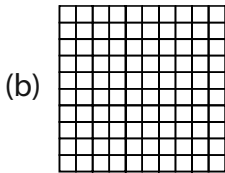
Skills Covered: • Observation • Analytical thinking
• Decision making

1. Colour and write in decimal form.



Colour $\frac{7}{10}$

Decimal number =



Colour $\frac{3}{100}$

Decimal number =

2. If each part of rectangle represents 10, the whole rectangle represents 100.

Shade $\frac{40}{100}$.



Decimal number =

Life Skills

Skills Covered: • Awareness • Observation
• Problem solving • Critical thinking

Find prices of your stationery items in rupees and dollars. Arrange the prices (in dollars) in ascending order.

Item	Price (₹)	Price (\$)
Pencil	7	0.094

- How often do you misplace your stationery items?
- Why should you use stationery items judiciously?

Values

Skills Covered: • Social and emotional skills • Awareness
• Observation • Decision making

Everyone was excited about their mathematics class. The teacher asked the students to bring lace. Students were excited about the activity. Savi bought 2 m lace which was available at her home. Her mother has stitched lace on a bedsheet and some part of the lace was left. The teacher asked the students to cut their lace into 5 equal pieces. Savi found that her partner Ginni has not bought any lace. Savi gave half of her lace to Ginni for the activity.

Now answer the following questions.

- What is the length of lace that Savi brought to school?
- How much lace did she give to Ginni for the activity?
- How will you represent 5 cm in metres in decimal form?
- What are the values depicted by Savi in the paragraph?

Integrated Learning

Skills Covered: • In-depth learning • Critical and logical thinking
• Observation • Reasoning

Linking with General Awareness

Where do you see decimal numbers in your daily life? Note down 5 decimal numbers and write their number names. Fill colour in the table of your choice.

S.No.	Decimal	Number Name
1.		
2.		
3.		
4.		
5.		

Time To Do Some Research

Skills Covered: • Investigation • Observation • Logical and critical thinking
• Analytical thinking • Reasoning

Find the weight of any 5 of your friends and fill in the table given below.

S.No.	Name of Friend	Weight (kg)	Number Name
1.	Rohit	25.450	Twenty five and four hundred fifty thousandths.
2.			
3.			
4.			
5.			

Apply Your Learning

Skills Covered: • Applicative thinking • Observation
• Decision making • Problem solving

Write any three digits from the mobile number of any of your family members. Using these digits,

1. Form the smallest number less than 1.
2. Form the greatest number less than 1.
3. Form the biggest number between two digits given below.

Digit 1– _____, Digit 2– _____.

Higher Order Thinking Skills

Skills Covered: • Observation • Critical and logical thinking
• Problem solving • Reasoning

1. Which mathematical symbol should be inserted between 4 and 5 to get a number greater than 4 but less than 5?
(a) + (b) – (c) . (d) =
2. Which is the smallest decimal number formed by using the digits 2, 0 and 9?
(a) .209 (b) .29 (c) .029 (d) .092
3. Which is the smallest decimal number among the following?
(a) 0.005 (b) 0.05 (c) 0.0005 (d) 0.5
4. What is the product of the digits in the tenths place and thousandths place of 15.642?
(a) 10 (b) 12 (c) 8 (d) 24

Competitive Corner

Skills Covered: • Analytical thinking • Quantitative reasoning
• Time management • Problem solving

1. The place value chart for fraction is extended on _____ side.
(a) Left (b) Right (c) No (d) Both
2. The place value of digit increases when the digit moves from the right to the left place by place by _____ times.
(a) 1 (b) 10 (c) 100 (d) none of these
3. What is the decimal form of $\frac{84}{1000}$?
(a) 0.84 (b) 8.4 (c) 0.084 (d) 84.000
4. What is the decimal form of $\frac{115}{10}$?
(a) 11.5 (b) 1.15 (c) 115.0 (d) 15.1
5. What is the fraction for 0.006?
(a) $\frac{6}{100}$ (b) $\frac{6}{1000}$ (c) $\frac{06}{10}$ (d) $\frac{6}{10}$