



START UP MATHEMATICS ACTIVITY BOOK

2

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

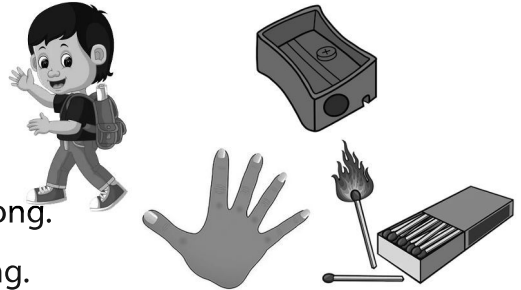
Effective **NEP**
implementation
tools for learning
mathematics

Observe and Answer

Skills Covered: • Observation • Analytical thinking
• Decision making

Fill in the blanks after measuring the objects using given non-standard units.

1. Your pencil is _____ sharpeners long.
2. Your room is _____ steps long.
3. Your desk is _____ crayons long.
4. Your whiteboard is _____ handspans long.
5. Your tiffin box is _____ matchsticks long.

**Life Skills**

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

Take a small bucket and an empty water bottle. Now estimate how many filled bottles of water will fill the bucket. Now fill the water bottle with water and count the number of bottles that can fill the bucket. Discuss your estimated and actual number of bottles used to fill the bucket.

Number of estimated bottles _____

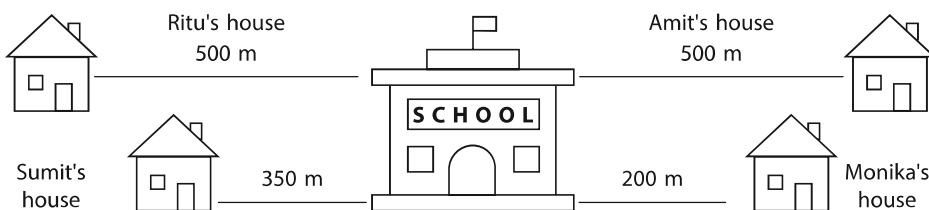
Number of bottles actually used _____

Difference _____

Values

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

The following diagram shows the location of the houses of four children.



1. How far is the school from Sumit's house?
2. Amit came to the school and then walked back home. How far did he walk?

- Why do you think walking is good for health?
- Ritu first walks to the school and then walks to Sumit's house. How far does Ritu walk?
- How many metres more is the school from Amit's house than from Monika's house?

Time To Do Some Research

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

Write values of five places near your house that you visit daily and find their distance from your house.

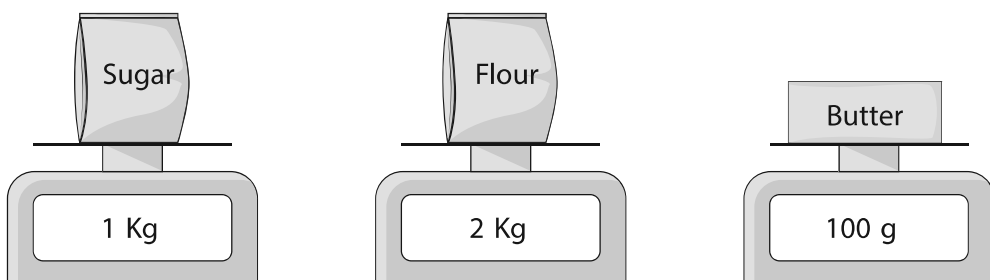
	Place	Distance From Your House
1.	Vegetable shop	
2.	Park	
3.	Milk booth	
4.		
5.		

Integrated Learning

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

Linking with Values

Elina is planning to help her mother in baking cupcakes. Her mother has bought the following ingredients.

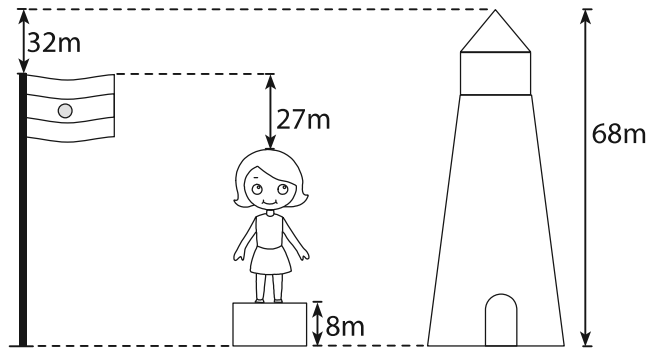


If 50 g butter, 1 g flour and 500 g sugar is used to bake 50 cupcakes, then how many cupcakes can Elina's mother bake with the ingredients she bought?

How do you help your mother in cooking?

Apply Your Learning

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



- What is the height of the flag pole?
(a) 36m (b) 34m (c) 28m (d) 32m
- What is the height of the girl?
(a) 32m (b) 2m (c) 1m (d) 34m
- The girl is _____ m shorter than the tower.
(a) 36m (b) 67m (c) 65m (d) 34m
- What is the sum of the heights of flag pole and girl?
(a) 32m (b) 34m (c) 37m (d) 35m
- What is the sum of heights of the tower, flag pole and girl?
(a) 100m (b) 67m (c) 68m (d) 105m

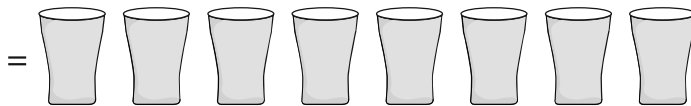
Higher Order Thinking Skills

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

Water in each of the following containers is poured into glasses. Observe the picture and answer the following questions.

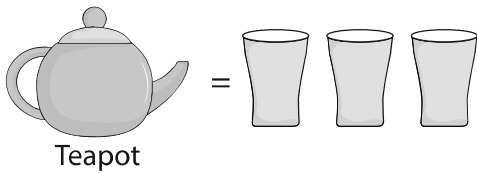


Earthen pot



Jug



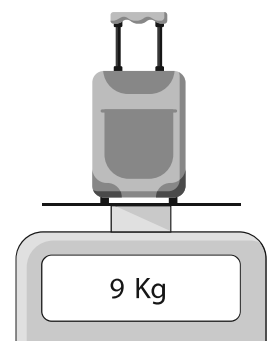
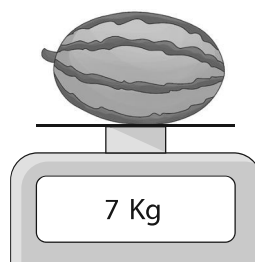
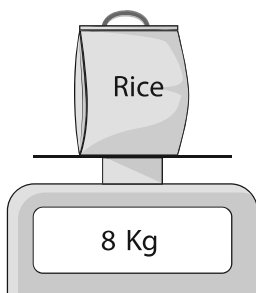


- (a) _____ glasses of water can fill 1 teapot.
 (a) 3 (b) 2 (c) 5 (d) 4
- (b) _____ glasses of water can fill 3 teapots.
 (a) 8 (b) 6 (c) 7 (d) 9
- (c) The _____ has least amount of water.
 (a) Earthen pot (b) Jug
 (c) Teapot (d) Teapot & Jug
- (d) The _____ has/have the maximum amount of water.
 (a) Teapot (b) Jug
 (c) Earthen pot (d) Teapot, jug and kettle
- (e) The total volume of the teapot and the jug is _____ more glasses of milk than the kettle.
 (a) 3 (b) 2 (c) 1 (d) 4

Competitive Corner

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

1. On the basis of the given figures, answer the following questions.



- (a) What is the total weight of watermelon and trolley bag?
 (a) 14 Kg (b) 22 Kg
 (c) 16 Kg (d) 35 Kg

(b) The weight of rice bag is _____ kg more than watermelon.

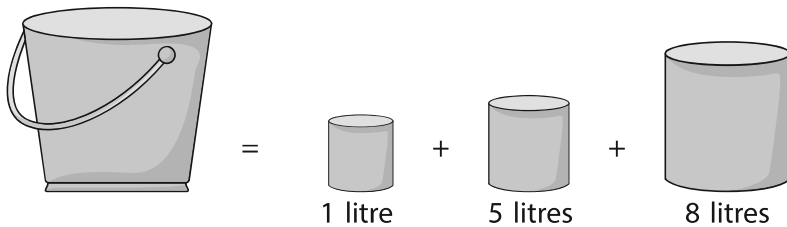
(a) 3 Kg

(b) 2 Kg

(c) 4 Kg

(d) 1 Kg

2. A bucket can be filled by 3 measuring containers as shown. How much water can the bucket hold?



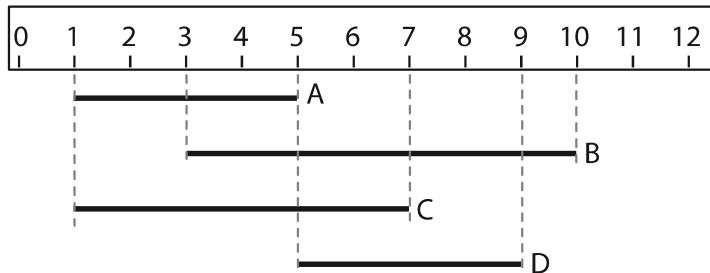
(a) 17 litres

(b) 14 litres

(c) 10 litres

(d) 13 litres

3. What is the length of the longest stick?



(a) 6 cm

(b) 5 cm

(c) 9 cm

(d) 7 cm