

Shapes, Patterns and Data Handling

Mathematics · Class 2 · Topic-wise Practice Worksheet

TIME 35 minutes	QUESTIONS 15	TOTAL MARKS 18	MAX. SCORE ___ / 18
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Name: _____ Class/Sec: _____ Date: _____

INSTRUCTIONS

- There are **15 questions**. Answer all of them.
- Each question has four choices — (A), (B), (C) and (D). Only **one** is correct.
- Questions 1–12 carry **1 mark** each. Questions 13–15 carry **2 marks** each.
- There is no negative marking. Look at every picture and chart carefully.

Section A — Shapes and Patterns

Q1–Q8 · 1 mark each

- How many corners does a rectangle have?
 (A) 2 (B) 3
 (C) 4 (D) 6
- How many faces does a cube have?
 (A) 4 (B) 6
 (C) 8 (D) 12
- Which solid shape has a curved surface and two flat circular ends?
 (A) Cylinder (B) Cube
 (C) Cone (D) Cuboid
- A shape that has 5 sides is called a _____.
 (A) Pentagon (B) Square
 (C) Triangle (D) Hexagon
- What comes next in the pattern? 5, 10, 15, 20, ____
 (A) 21 (B) 24
 (C) 25 (D) 30
- What comes next in the pattern? 2, 4, 8, 16, ____
 (A) 18 (B) 20
 (C) 24 (D) 32

7. Which shape has been folded to make two matching halves?

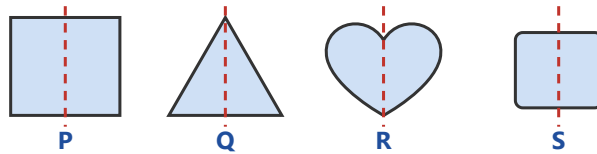


Fig. 7.1 — The dashed line is the fold line

- (A) Only P
(B) All four
(C) Only R
(D) Only Q

8. Which of these letters has a line of symmetry?

- (A) F
(B) P
(C) L
(D) A

Section B — Reading a Picture Graph

Q9–Q12 · 1 mark each

9. The picture graph shows the fruits sold by a shop. How many **apples** were sold?

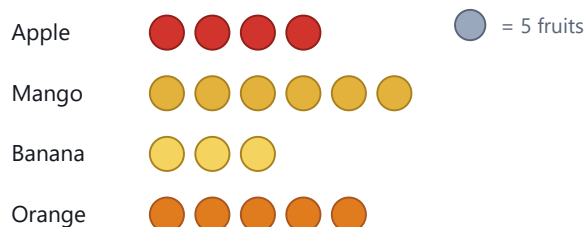


Fig. 9.1 — Fruits sold last week

- (A) 4
(B) 9
(C) 20
(D) 45
10. Using the same graph, which fruit sold the **most**?
- (A) Mango
(B) Apple
(C) Banana
(D) Orange
11. Using the same graph, how many **more** oranges than bananas were sold?
- (A) 2
(B) 5
(C) 10
(D) 15
12. Which shape will come next? ▲ ■ ■ ▲ ■ ■ ▲ ____
- (A) ▲
(B) ■
(C) ●
(D) ◆

Achievers Section

Q13–Q15 · 2 marks each

13. A cube has 6 faces. How many faces do **3** cubes have altogether?

- (A) 9
(B) 12
(C) 18
(D) 24

14. Look at this number pattern: 1, 3, 6, 10, _____. What comes next?

(A) 12

(B) 13

(C) 15

(D) 16

15. Rohit draws a shape with 4 equal sides and 4 corners, and every corner is a square corner. Which shape is it?

(A) Rectangle

(B) Pentagon

(C) Triangle

(D) Square

Answer Key

1	C	2	B	3	A	4	A	5	C
6	D	7	B	8	D	9	C	10	A
11	C	12	B	13	C	14	C	15	D

Solutions

1. Answer: (C) 4

A rectangle has 4 sides and **4** corners.

2. Answer: (B) 6

A cube has **6** flat square faces, like a dice. It also has 8 corners and 12 edges.

3. Answer: (A) Cylinder

A **cylinder**, such as a tin of food, has a curved surface with a flat circle at each end.

4. Answer: (A) Pentagon

A **pentagon** has 5 sides. A hexagon has 6 and a triangle has 3.

5. Answer: (C) 25

The numbers go up by 5 each time.

$$20 + 5 = \mathbf{25}.$$

6. Answer: (D) 32

Each number is **doubled** to get the next one: 2, 4, 8, 16, and $16 \times 2 = \mathbf{32}$.

7. Answer: (B) All four

If you fold each shape along its dashed line, the two halves sit exactly on top of each other every time. So the dashed line is a line of symmetry for **all four** shapes.

8. Answer: (D) A

The letter **A** can be folded down the middle so that the left half matches the right half. F, L and P cannot be folded to match.

9. Answer: (C) 20

There are 4 circles in the apple row and each circle stands for 5 fruits.

$$4 \times 5 = \mathbf{20} \text{ apples.}$$

10. Answer: (A) Mango

Count the circles in each row: apple 4, **mango 6**, banana 3, orange 5. Mango has the most circles, so it sold the most ($6 \times 5 = 30$ fruits).

11. Answer: (C) 10

Orange has 5 circles and banana has 3, so orange has 2 more circles.

$$2 \times 5 = \mathbf{10} \text{ more oranges.}$$

12. Answer: (B) ■

The pattern repeats as triangle, square, square. After a triangle there is always a **square**.

13. Answer: (C) 18

Each cube has 6 faces.

$$3 \times 6 = \mathbf{18} \text{ faces in all.}$$

14. Answer: (C) 15

Look at the gaps: 1 to 3 is +2, 3 to 6 is +3, 6 to 10 is +4. The next gap must be +5.

$$10 + 5 = \mathbf{15}.$$

15. Answer: (D) Square

A rectangle has square corners, but its sides are not all equal. A shape with **4 equal sides and 4 square corners** is a square.