Chapter 2: What is Long? What is Round?

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Exercise 2.1 — Think and Do — Long, Round, Match, Tick

Q1 Draw round objects in the round shape and long objects in the long shape.

SOLUTION

A drawing activity. The page shows a large circle and a rectangle. Draw round things (ball, coin, orange) inside the circle. Draw long things (water bottle, pencil box) inside the rectangle.

Q2 Match the objects which are similar in shape.

SOLUTION

Match by shape: dholak (drum) ↔ candle (both cylinder); football ↔ coloured ball (both sphere); open cardboard box ↔ decorated flat box (both cuboid); hat/lid ↔ plate (both flat and round); birthday cap ↔ rolled newspaper cone (both cone-shaped).

Q3 Tick the shape which is similar to ball.

SOLUTION

Tick the watermelon. A ball is round (sphere). Of the four options — watermelon, water bottle, pencil box, ice-cream cone — the watermelon is round like a ball.

Q4 Tick the shape which is similar to cap.

SOLUTION

Tick the rolled paper cone (first option, leftmost). The birthday cap is cone-shaped — pointed at the top, round at the base. Only the rolled paper/cone matches that shape.

Q5 Tick the shape which is similar to glass.

SOLUTION

Tick the water bottle (second option). A glass is cylindrical — tall and round. Of the four options — ball, water bottle, open box, school bag — the water bottle is a cylinder like the glass.

Q6 Tick the shape which is similar to matchbox.

SOLUTION

Tick the pencil box/eraser box (third option). A matchbox is a cuboid with flat rectangular faces. Of the four options — plate, ball, pencil box, paper cone — the pencil box has the same cuboid shape.

Exercise 2.2 — Let us Do — Make with Shapes

Q1 Make a house, toy, tower, robot, bus or anything you like using different objects in your surroundings such as notebooks, books, pencil box, water bottle, waste or old boxes, birthday caps, funnels, etc.

SOLUTION

Choose objects of different shapes from around you. Stack or arrange them to make something — for example, use a box as the body of a robot, a round ball as the head, and a cone-shaped cap as a hat. There is no single right answer; be creative and describe what shape each part is.

Exercise 2.3 — Let us Slide — Roll and Slide

Q1 Write 'R' for rolling objects and 'S' for sliding objects in the boxes given in the picture.

SOLUTION

Write R or S in the circles next to each object in the playground picture. Slide → S (flat surface, slides). Football → R (round, rolls). Cardboard box → S (flat base, slides). Ball being rolled → R (round, rolls).

Q2 Collect different objects from your surroundings and see if they roll or slide.

SOLUTION

Pick up objects like a pencil, ball, eraser, bottle, and book. Push each gently on the floor. Round objects (ball, bottle) roll. Flat-bottomed objects (book, eraser) slide. Record what you find.

Q3 Do you see things which can do both, roll and slide? If yes, discuss in the class.

SOLUTION

Yes! A cylinder (like a round water bottle or a tin can) can both roll on its curved side and slide on its flat end. A coin can also roll on its edge and slide on its flat face. Share your examples with the class.

Exercise 2.4 — Think and Do — Roll, Slide or Both

Q1 Find whether the following objects roll, slide or do both. Put a tick for yes and a cross for no in each column: Rolls / Slides / Rolls as well as slides.

SOLUTION

Table answers (✓ = yes, ✗ = no). Football: Rolls ✓, Slides ✗, Both ✗. Eraser box: Rolls ✗, Slides ✓, Both ✗. Book: Rolls ✗, Slides ✓, Both ✗. Orange: Rolls ✓, Slides ✗, Both ✗. Water bottle: Rolls ✓, Slides ✓, Both ✓. Cup/glass: Rolls ✗, Slides ✓, Both ✗. Spoon: Rolls ✗, Slides ✓, Both ✗. Paper cone: Rolls ✗, Slides ✓, Both ✗.

Exercise 2.5 — Project Work — Shapes Around Us

Q1 Collect cardboard boxes (shoe boxes, empty food boxes, fruit boxes, etc.). Make a slit on the front of a box, draw eyes, mouth and nose, and make a puppet with help of your parent or teacher. Do a puppet show with puppets from your favourite stories.

SOLUTION

Take an empty box. Cut a slit (opening) near the bottom front for a mouth. Draw or paste eyes and a nose. You can add paper ears and hair. Put your hand inside and move the box to make the puppet 'talk'. Make puppets for different story characters and act out the story.

Q2 Make towers with different objects. Find which shape of objects makes taller and more stable towers.

SOLUTION

Try stacking boxes (cuboid), cylinders (tins), and cones. Boxes with flat faces stack evenly and make tall stable towers. Round objects (balls) are very hard to stack. Cylinders can stack if placed upright. The flattest, most even shapes make the tallest stable towers.

Q3 Create different shapes and objects by using clay.

SOLUTION

Roll clay into a ball (sphere), press it flat (disc), roll it into a long rope (cylinder), or shape it into a box (cuboid). You can make objects like a pot, a banana, or a bead. Explore how changing the shape changes what the clay looks like.