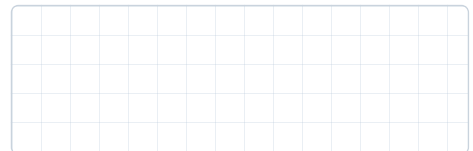
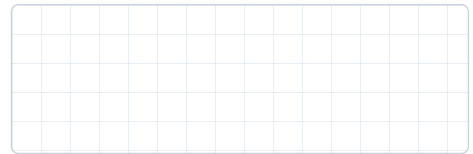


TIN AND FOOTBALL IN THE SHOP

- 1 Look at the tin of beans (a cylinder). It has two flat circular ends and one curved side.
- 2 Stand the tin on a flat end: it sits steady on the shelf so it **stacks**.
- 3 Lay the tin on its curved side: it can **roll** along the counter.
- 4 A cylinder can do **both**. A football (sphere) has no flat face so it only rolls.

PRACTICE

- 1 You are making a tower of dice on the games table. Can each dice sit steady on the one below it?
- 2 You try to build a tower of tennis balls in the PE store. What happens when you place one ball on another?
- 3 You stack cereal boxes to make a shop display. Does the cuboid box sit steady on the one below?
- 4 Kitchen-roll tubes stand in a tall tower in the art corner, each tube on the flat end of the one below. What can this cylinder do when stood on end?
- 5 A kitchen-roll tube is laid on its curved side on the table. What can it do now?
- 6 Builders need solids with flat faces to make a steady tower. From cube, sphere, cuboid and cylinder, which two stack best on a flat face?



? ALWAYS, SOMETIMES, NEVER

Always, sometimes or never true? Write A, S or N.

- | | |
|---|--|
| a. A cube has a curved face. ☐ | c. A cylinder has two flat ends. ☐ |
| b. A sphere can stack to make a tall steady tower. ☐ | d. A cylinder both stacks and rolls depending how it is placed. ☐ |

