

Trend Task: Packages

Approach: One to one

Focus: Describing 3D shapes

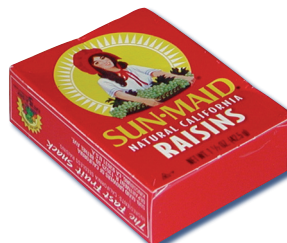
Resources: Toblerone box, raisin box, Rolo packet

Year: 4 & 8

Questions / instructions:

Put three boxes in front of student.

In this activity we will be talking about these three packages.



1. Pick up the *Toblerone* box and have a good look at it. Tell me all the different things you can about the shape of the box.

PROMPT: *Is there anything else you can tell me about the shape of the box?*

Refers to triangles: triangular prism
ends are triangles/3D triangle
mentions triangles
any other response (including prism)

sides are rectangles
long (relative to x-section)
ends are parallel
regular shape
(equilateral triangles, rectangles same)
number of faces/sides = 5
number of edges = 9
number of corners = 6

2. Pick up the raisin box and have a good look at it. Tell me all the different things you can about the shape of the box.

PROMPT: *Is there anything else you can tell me about the shape of the box?*

Refers to rectangles:

rectangular prism/cuboid
rectangle/oblong (3D sense)/
rectangular cube
all sides rectangles/oblongs
rectangles/oblongs mentioned
any other response (including prism)

opposite faces parallel (or equivalent)
number of faces/sides = 6
number of edges = 12
number of corners = 8

% response
2005 ('01)
year 4 year 8

3. Pick up the *Rolo* packet and have a good look at it. Tell me all the different things you can about the shape of the package.

PROMPT: *Is there anything else you can tell me about the shape of the package?*

Refers to cylinder:

cylinder/circular prism
ends are circles/round (3D)
round, circular
any other response (including prism)

ends are parallel
long (relative to x-section)
number of flat faces/sides = 2
other face is rectangle rolled out
number of edges (circular) = 2
number of corners = 0

% response
2005 ('01)
year 4 year 8

Total score: 17–27
14–16
11–13
8–10
5–7
2–4
0–1

Commentary:

This task involved the use of geometry terminology and the ability to describe shapes. Students in year 8 were much more likely to use precise terminology but many students at both year levels did not do so. There was little change between 2001 and 2005.