Two Boxes TREND

Level: Year 8 Approach: Station

Focus: Measuring boxes and calculating volume. Resources: Gold box, silver box, ruler, calculator.



Questions/instructions: In this activity you will be finding out

which box has the greater volume. Measure the outside of the boxes.

1. Work out the volume (capacity) of the gold box.

Answer: 160 cm³

within 10% and correct units

within 10% but units not correct

2. Work out the volume (capacity) of

the silver box.

Answer: 216cm³

within 10% and correct units

within 10% but units not correct

3. Which box has the greater volumethe gold box or the silver box?

silver box

% responses

2001 ('97) vear 8

> 18 (11) 12 (18)

16 (12) 14 (17)

64 (63)

Commentary

Only 30 percent of students in 2001 calculated the volume of each box correctly. This compared with 29 percent in 1997, but more students used the correct units in 2001 than in 1997.