

# P6 PROGRESS TEST ANSWERS - Stage 3

## Test 23 Measure

### Content

Volume — volumes in cubic centimetres

### Materials

Some children may wish to use centimetre cubes, especially for questions 1 and 4.

### Notes

Q1 to 5 It is important that the children realize that *all* the cubes shown on the page, no matter what their apparent size, are intended to represent centimetre cubes.

Q3 The word TELL used in 2(d) should help the children to see that they can use any of the letters more than once. If they consider the number of cubes in each letter:

E F L T  
10 8 7 7

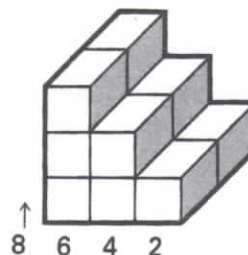
they may see that  $35 \text{ cm}^3$  can be made up of  $10 + 10 + 8 + 7 \text{ cm}^3$ .

This may then lead to

F E E T or FEEL

$8 + 10 + 10 + 7$

Q4 These steps should be treated as 'solid' with no hidden cavities. It may help some children to use cubes to build the steps. Others may see the sequence:



and then find that the volume in (b) is  $8 + 6 + 4 + 2 = 20 \text{ cm}^3$

### Answers

- (a)  $7 \text{ cm}^3$  (b)  $8 \text{ cm}^3$  (c)  $8 \text{ cm}^3$
- (a) E —  $10 \text{ cm}^3$  F —  $8 \text{ cm}^3$   
L —  $7 \text{ cm}^3$  T —  $7 \text{ cm}^3$   
(b)  $25 \text{ cm}^3$  (c)  $32 \text{ cm}^3$  (d)  $31 \text{ cm}^3$
- FEET or FEEL
- (a)  $12 \text{ cm}^3$  (b)  $20 \text{ cm}^3$
- $240 \text{ cm}^3$

# PROGRESS TEST ANSWERS - Stage 4

## Test 5 Measure

### Content

Volume — litres and millilitres, reading scales, comparison of volumes

### Materials

None

### Answers

- (a) P — 500 ml, Q — 860 ml, R — 360 ml, S — 250 ml  
(b) P —  $\frac{1}{2}$  litre, S —  $\frac{1}{4}$  litre  
(c) 1 litre 110 millilitres
- 1 litre 550 ml
- 150 doses
- 'It is more than 300 ml but less than 400 ml.'  
'The volume is about 400 ml.'
- X and Z
- (a) 100 ml (b) 500 ml
- (a) 300 ml (b) 700 ml

## Test 32 Measure

### Content

Volume — volume of boxes in cubic centimetres, cubic centimetre/millilitre relationship, millilitre/litre relationship; money — best buy, fares

### Materials

None essential but centimetre cubes may help some children

### Notes

Q1,2 Some children could use cubes to build these cuboids and so find each volume.

### Answers

- (a) P  $8 \text{ cm}^3$ , Q  $4 \text{ cm}^3$   
(b) P 3 layers, Q 6 layers  
(c) P  $24 \text{ cm}^3$ , Q  $24 \text{ cm}^3$
- A  $30 \text{ cm}^3$ , B  $36 \text{ cm}^3$ , C  $150 \text{ cm}^3$
- 150 ml
- (a) 1350 ml (b) 1 litre 350 ml
- (a) £2.90 (b) £2.45 (c) £5.00
- £2.55 cheaper
- 16 p
- A £5.70, B £9.60, C 640 km, D 450 km