

*Approach:* One to one*Level:* Year 8*Focus:* Computation strategies.*Resources:* Prompt card.*Questions/instructions:*

% responses

Show card.

y4

y8

$$17 \times 6 = 102$$

$$19 \times 6 = \boxed{\phantom{000}}$$

This card tells you that 17 times 6 is 102.

If you already know that 17 times 6 equals 102, how would you work out 19 times 6. Tell me how you would work it out.

*PROMPT: Can you explain that a bit more to me?*

**Strategy:**

You have 17 groups of 6;  
you need 2 more groups of 6;  
that is  $2 \times 6 = 12$  more;  
 $102 + 12 = 114$

45

You have 6 groups of 17;  
you need 2 more per group;  
that is  $6 \times 2 = 12$  more;  
 $102 + 12 = 114$

7

You need to add 12 ( $6 \times 2$ ),  
but not clearly explained why

9

Any method where  $19 \times 6$   
calculated directly

17

No workable strategy explained

22

**Commentary**

About 60 percent of the students realised that the task could be achieved without direct calculation of  $19 \times 6$ . However more than 20 percent did not describe a workable strategy.