## Mental multiplication strategies – split strategy

The split strategy is when we multiply numbers in 2 pairs and then add the parts. Let's use the split strategy for  $26 \times 4$ .

- Split 26 into 20 and 6.
- Multiply each part.
- Add the answers together.

$$26 \times 4 \longrightarrow 20 \times 4 + 6 \times 4$$
  
 $80 + 24 = 104$   
So,  $26 \times 4 = 104$ 

Use the split strategy to answer these:

a 
$$34 \times 3 \longrightarrow 30 \times 3 + 4 \times 3$$

$$90 + \boxed{\phantom{0}} = \boxed{\phantom{0}}$$

$$50, 34 \times 3 = \boxed{\phantom{0}}$$

### Mental multiplication strategies – split strategy

Sometimes it's easier to split a number into parts and work with the parts separately.

Look at  $64 \times 8$ 

Split the number into 60 and 4

Work out (60  $\times$  8) and then (4  $\times$  8)

Add the answers together 480 + 32 = 512

### Use the split strategy to answer the questions:

$$(40 \times 4) + (6 \times 4)$$

#### Use the split strategy to answer the questions. This time see if you can do the brackets in your head:



know how to work with multiples of ten in my head!

It's a good thing I

#### THINK

#### These problems have been worked out incorrectly. Circle where it all went wrong.

$$(30 \times 6) + (7 \times 6)$$

$$180 + 13$$

$$(10 \times 5) + (7 \times 5)$$

$$70 + 35$$

$$(30 \times 9) + (2 \times 9)$$

$$27 + 18$$

# Mental multiplication strategies – split strategy

Each trail contains 2 multiplication problems and steps to solve them. Only one trail has been solved correctly. There are errors in the other two. Find and colour the winning trail.

