AFRICAN INSTITUTE FOR MATHEMATICAL SCIENCES

SCHOOLS ENRICHMENT CENTRE (AIMSSEC)

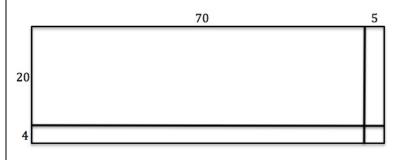
AIMING HIGH

TWO BY TWO PUZZLE

×	20	4	
70	1400	?	1680
5	?	20	120
	1500		1800

Find numbers to replace the ? marks to solve this two by two multiplication puzzle.

Can you explain how it works?



How does this diagram connect with the multiplication?

Use the two grids BELOW to do the two multiplications in a similar way:

 72×25

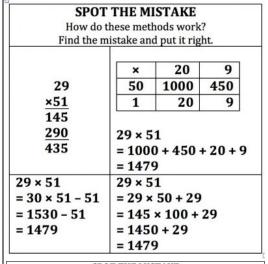
50 x 36

What do you notice? Why is this happening?

×		

×		

HELP



Work with a partner to check all the calculations in these boxes and to correct the mistakes.

Remember that you need to think about place value, that is about tens and units.

This will show you how the calculation in the puzzle on page 1 works.

 SPOT THE MISTAKE

 How do these methods work?

 Find the mistake and put it right.

 79
 × 8

 642

 8 | 6372 | 79

 8 | 6372 | 8 = | 80×7 + 8×9 | ÷ 8 = 79

SPOT THE MISTAKE https://aiminghigh.aimssec.ac.za/years-4-7-spot-the-mistake/

NEXT

Make up a similar multiplication task of your own using different numbers.