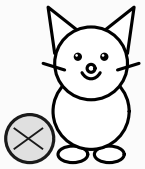
Name : _____ Date : _____

PAPILUMO / 3rd Grade • Answer key

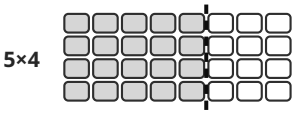
Break Apart 8 & 9 Times Arrays

Look at the dashed split inside each wood-tile grid, write both partial products in the first two boxes, then add them for the final product.



Sacha the Beaver splits wide wood-tile grids into friendly parts! Break ×8 into 5 + 3 and ×9 into 5 + 4 to multiply tricky facts with ease.

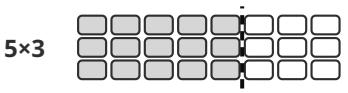
Model: 8 × 4 = (5×4) + (3×4)



8 × 4 = 20 + 12 = 32

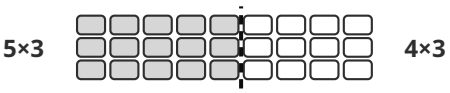
Find the two partial products on each split grid, then add them to get the total

#1 **8 × 3** 5 + 3



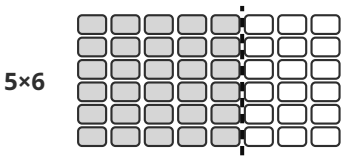
(5 × 3)		(3 × 3)		**(8 × 3)**
15	+	**9**	=	**24**

#2 **9 × 3** 5 + 4



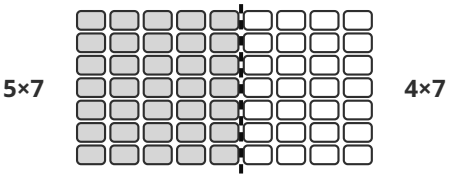
(5 × 3)		(4 × 3)		**(9 × 3)**
15	+	**12**	=	**27**

#3 **8 × 6** 5 + 3



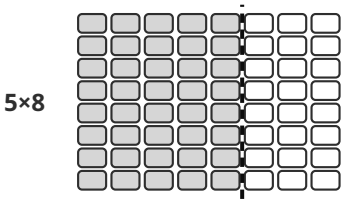
(5 × 6)		(3 × 6)		**(8 × 6)**
30	+	**18**	=	**48**

#4 **9 × 7** 5 + 4



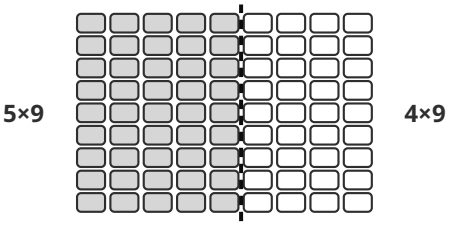
(5 × 7)		(4 × 7)		**(9 × 7)**
35	+	**28**	=	**63**

#5 **8 × 8** 5 + 3



(5 × 8)		(3 × 8)		**(8 × 8)**
40	+	**24**	=	**64**

#6 **9 × 9** 5 + 4



(5 × 9)		(4 × 9)		**(9 × 9)**
45	+	**36**	=	**81**

Sacha's tip: anchor on your friendly 5-times facts first, then add the 3-times or 4-times group!