Name : _____ Date : _____

PAPILUMO / 3rd Grade (ages 8–9) • Answer key

Pythagorean Chart & Cutout Puzzles

Complete the 18 framed blanks in the 10×10 multiplication chart, then deduce missing factors and products in the three cutout puzzles.



Tip: follow a row and a column across until their intersection!

Sacha the owl teacher left 18 blanks in the chart and 3 cutout subgrid puzzles!

Worked 2×2 intersection tip: row 4 × column 7 = 28

×	6	7
3	18	21
4	24	**28**

→ **4 × 7 = 28**

Row 4, col 7

1 1. Complete the 18 strategic blanks across the 10×10 Pythagorean chart

10×10 Pythagorean Multiplication Chart — 18 blanks to fill

×	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	**8**	10	12	14	**16**	18	20
3	3	6	9	12	**15**	18	21	24	**27**	30
4	4	8	**12**	16	20	**24**	28	32	36	40
5	5	**10**	15	20	25	30	35	40	**45**	50
6	6	12	18	**24**	30	36	**42**	48	54	60
7	7	14	**21**	28	35	**42**	49	**56**	63	70
8	8	**16**	24	32	**40**	48	56	64	**72**	80
9	9	18	27	**36**	45	54	**63**	72	81	90
10	10	20	30	40	50	60	70	80	90	100

2 2. Solve the 3 cutout subgrid puzzles by finding missing factors and products

Puzzle A — 4 blanks

×	3	6	8
4	12	24	**32**
7	**21**	**42**	56

Puzzle B — 4 blanks

×	4	7	9
6	24	**42**	**54**
8	**32**		
5	20		

Puzzle C — 5 blanks

×	8	6	9
5	40	30	**45**
7	**56**	42	
9	**72**		

Sacha's clue: in each cutout puzzle, use a known intersection product (like 4 × ? = 24) to unlock the missing edge factor first!