

Exploring Missing Factors

NCTM Standards 1, 2, 6, 9, 10

Sheila's Shipping Company uses these special shipping stamps for postage.

Group A:         

Group B:         

Complete the puzzles and number sentences to show the postage for each package. Use one stamp from Group A and one from Group B.

Example

	A	B	
×	10	5	15
5	50	25	75

$$5 \times \underline{\quad} = 75$$

1

	A	B	
×	10		
7	70		91

$$7 \times \underline{\quad} = 91$$

2

	A	B	
×	30		
4			152

$$4 \times \underline{\quad} = 152$$

3

	A	B	
×			
7			84

$$7 \times \underline{\quad} = 84$$

4

	A	B	
×			
5			290

$$5 \times \underline{\quad} = 290$$

5

	A	B	
×			
8			368

$$8 \times \underline{\quad} = 368$$

Use these puzzles to show the postage for each package for larger shipments. Complete the number sentences.

6

	A	B	
×	20		
10			
3		9	69
13		39	299

$$13 \times \underline{\quad} = 299$$

7

	A	B	
×	50		
10		80	
2			116
12		96	696

$$12 \times \underline{\quad} = 696$$

8

	A	B	
×		7	
10	400		
1			
11			517

$$11 \times \underline{\quad} = 517$$

9

	A	B	
×		5	
20			
6	180		
26	780		910

$$26 \times \underline{\quad} = 910$$

10 Challenge

	A	B	
×		7	
50			2,850
7	350	49	
57		399	3,249

$$57 \times \underline{\quad} = 3,249$$

11 Challenge

	A	B	
×			103
	1,000		
8	800		
			1,854

$$\underline{\quad} \times 103 = 1,854$$