Multiplication Puzzles

Complete each puzzle.

1

×	
2	**3**

2

×	
1	**7**

3

×	
2	**9**

4

×	**5**
1	**0**	**0**

5

×	**4**
1	**0**	**0**

6

5	
×	**8**
4	**1**

7

×	
1	**2**	**1**

8

×	
1	**4**	**4**

9

2	
×	**0**
4	**0**	**0**

10 On sports day, 18 students were absent. The principal put the 400 remaining students into teams. Each team had 25 students. How many teams were there?
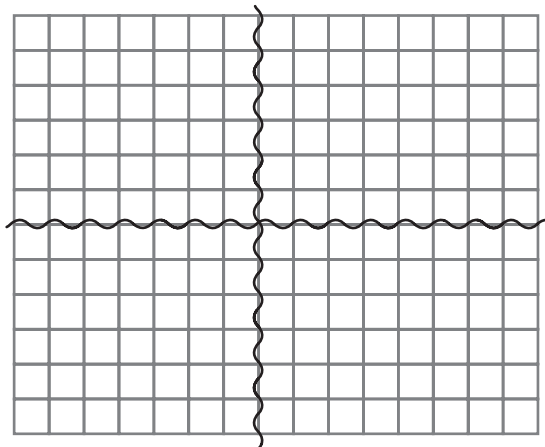
_____ teams

Multiples of 10 and 100

Find each product.

1 $6 \times 30 =$ _____

2 $8 \times 40 =$ _____

3 $9 \times 80 =$ _____

4 $60 \times 3 =$ _____

5 $80 \times 40 =$ _____

6 $9 \times 800 =$ _____

Complete each puzzle.

7

×	7
9	0

8

	×	4
1	6	0

9

	0
×	6
6	

10

	×	8
8	0	0

11

2	0	
	×	
6		0

12

	0	
	×	3
9		0

13

	7	0
×	2	0

14

	5	
×	5	
5	0	0

15

	×	5
3	5	0	0

Using Arrays to Model Multiplication

Complete each chart to find the number of squares in each array.

1   15 × 12

×	7	8	
6	42		
6			
12			

---

2   17 × 13
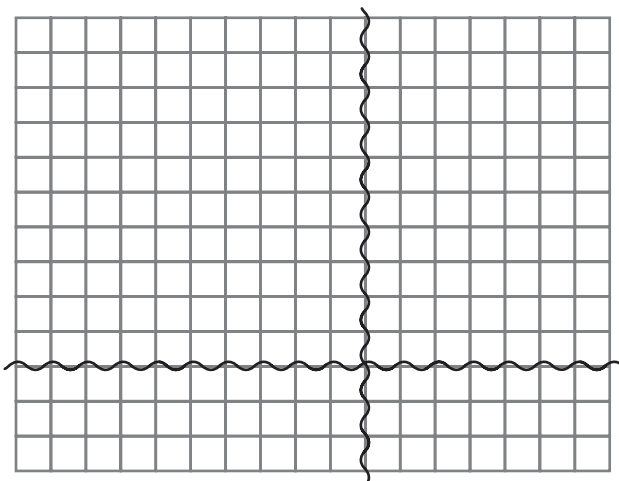
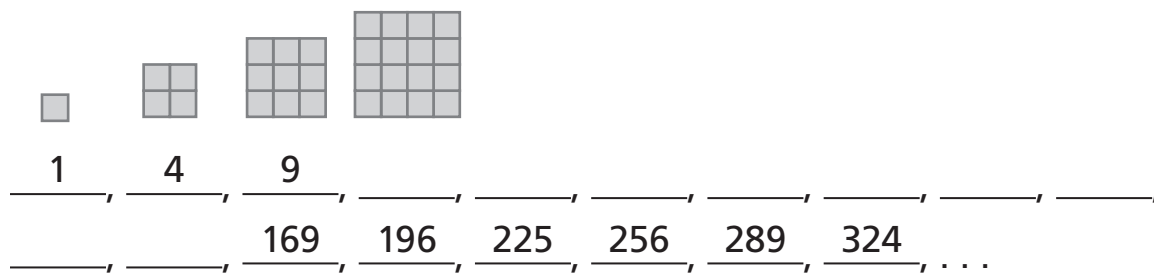| ×	10	7	
10			
3			

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3 There are two classes of 24 students and two classes
of 20 students. How many buses will be needed to
transport them if each bus has 11 rows with 4 seats
in each row? Explain.

_____

_____

Splitting Larger Arrays

1 Fill in the missing numbers.

_1_ , _4_ , _9_ , _____ , _____ , _____ , _____ , _____ , _____ , _____ ,

_____ , _____ , 169 , 196 , 225 , 256 , 289 , 324 , . . .

---

2 Complete these problems.

16	25	36	16	25	36
× 4	× 4	× 4	× 9	× 9	× 9

Use the answers from above to fill in this multiplication table for square numbers.

×	1	4	9	16	25	36
1						
4						
9						
16						
25						
36						

Are all the numbers in the table square numbers? _____

Work Backward

Work backward to split the factors. Use the largest multiples of 10 that you can. Then find the product.

1

×			61
26			

2

×			18
34			

3

×			77
52			

4

×			48
49			

5

×			12
93			

6

×			32
89			

7

×			72
62			

8

×			88
56			

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From Charts to Vertical Records

Find the missing digits in the problems below.

1

	1	7
×	6	0

2

	2	3
×		0
	9	0

3

	3	
×	4	0
2	0	0

4

5		
×	1	4
2	0	0

5

		8
×	7	0
2	8	0	0

6

6	1
×	
	2	0
1	2	0	0

7

		8
×	9	
7	2	0
6	3	0	0

8

5		
×	8	
2	4	0

9

×	3	
2	7	0
9	0	0

Recording Your Process of Multiplication

Multiply.

1

1	5	2
×	1	6

2

2	1	7
×	3	4

3

3	0	5
×	2	8

(grid with 0 and 0 prefilled)

4

	1	9
×	1	7	4

5

	2	8
×	4	1	0

(grid with 0 and 0 prefilled)

6

6	8	1
×	3	7

Checking for Reasonable Answers

Find the products. For help, use the problems on either side of the center problem.

1

100
× 10

70
× 10

3
× 10

1	7	3
×	1	2

100
× 2

70
× 2

3
× 2

2

	5	3
×	2	2	9

3

9	4	0
×	4	1

Multiplication Situations

1   27 × 16 = ☐

×	20	7	27
6	120	42	162
10			
16	(blot)		

27 × 6 →
27 × 10 →
27 × 16 →

	2	7
×	1	6

---

2   38 × 43 = ☐

	30	8	38
40			
3			
43	(blot)		

38 × 40 →
38 × 3 →
38 × 43 →

	3	8
×	4	3

3

9	
×	5
4	9	5

4

×	8
6	4	0

5

1	1	8
×		
	9	0

6

×	9
	8	7