

Get Ready for Grade 9 Multiplication Tables Worked Examples and Practice

Example 1: Use your knowledge of multiplication tables to evaluate each of the following.

a) 6×7

b) 5×8

c) 9×12

d) 10×11

Solution:

You must memorize the multiplication table shown.

a) $6 \times 7 = 42$

b) $5 \times 8 = 40$

c) $9 \times 12 = 108$

d) $10 \times 11 = 110$

		1	2	3	4	5	6	7	8	9	10	11	12
1		1	2	3	4	5	6	7	8	9	10	11	12
2		2	4	6	8	10	12	14	16	18	20	22	24
3		3	6	9	12	15	18	21	24	27	30	33	36
4		4	8	12	16	20	24	28	32	36	40	44	48
5		5	10	15	20	25	30	35	40	45	50	55	60
6		6	12	18	24	30	36	42	48	54	60	66	72
7		7	14	21	28	35	42	49	56	63	70	77	84
8		8	16	24	32	40	48	56	64	72	80	88	96
9		9	18	27	36	45	54	63	72	81	90	99	108
10		10	20	30	40	50	60	70	80	90	100	110	120
11		11	22	33	44	55	66	77	88	99	110	121	132
12		12	24	36	48	60	72	84	96	108	120	132	144

Example 2: Use your knowledge of multiplication tables to find two single-digit integers that multiply to give each of the following numbers.

a) 45

b) 56

c) 72

d) 21

Solution:

a) $45 = 5 \times 9$

b) $56 = 7 \times 8$

c) $72 = 8 \times 9$

d) $21 = 3 \times 7$

Example 3: Find the smallest number that is divisible by 2, 3, 4, 5, and 6.

Solution: Since 2 is a factor, the number must be even. Since 5 is a factor, the number must end in 5 or 0. Therefore, possible candidates are 10, 20, 30, 40, 50, and 60. Your knowledge of the multiplication tables will show that only 60 is also divisible by 4 and by 6. Therefore, the answer is 60.

Example 4: Find all of the numbers between 3 and 12 which divide evenly into 36.

Solution: Your knowledge of the multiplication tables can be used to show that the numbers are 3, 4, 6, 9, and 12.

Practice:

1. Use your knowledge of multiplication tables to evaluate each of the following.

- a) 9×4 b) 6×8 c) 11×12 d) 10×6

2. Use your knowledge of multiplication tables to find two single-digit integers that multiply to the given number.

- a) 27 b) 54 c) 63 d) 35

3. Find the smallest number that is divisible by 2, 6, and 10.

4. Find all of the numbers between 3 and 12 which divide evenly into 48.

Answers:

1. a) 36 b) 48 c) 132 d) 60

2. a) 3×9 b) 6×9 c) 7×9 d) 5×7

3. 30

4. 3, 4, 6, 8, 12