Expanded Multiplication

I can multiply two-digit by one-digit numbers using expanded multiplication.
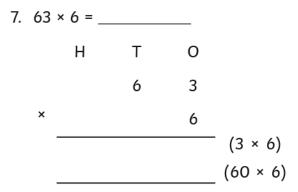
Example:

64 × 5 = **320**

×	60	4
5	300	20

300 + 20 = 320

```
 H   T   O
     6   4
×        5
─────────────
     2   0      (4 × 5)
 3   0   0      (60 × 5)
─────────────
 3   2   0
```

Questions:

1. 28 × 3 = _____

×	20	8
3		

```
 H   T   O
     2   8
×        3
─────────────
                (8 × 3)
                (20 × 3)
```

2. 74 × 5 = _____

×	70	4
5		

```
 H   T   O
     7   4
×        5
─────────────
                (4 × 5)
                (70 × 5)
```

3. 47 × 4 = _____

×	40	7
4		

```
 H   T   O
     4   7
×        4
─────────────
                (7 × 4)
                (40 × 4)
```

Expanded Multiplication

4. 36 × 3 = _____

	H	T	O
		3	6
×			3

_____ (6 × 3)

_____ (30 × 3)

5. 74 × 4 = _____

	H	T	O
		7	4
×			4

_____ (4× 4)

_____ (70 × 4)

6. 82 × 5 = _____

	H	T	O
		8	2
×			5

_____ (2 × 5)

_____ (80 × 5)

7. 63 × 6 = _____

	H	T	O
		6	3
×			6

_____ (3 × 6)

_____ (60 × 6)

8. 24 × 8 = _____

	H	T	O
		2	4
×			8

_____ (4 × 8)

_____ (20 × 8)

9. 61 × 9 = _____

	H	T	O
		6	1
×			9

_____ (1 × 9)

_____ (60 × 9)

10. 78 × 7 = _____

	H	T	O
		7	8
×			7

_____ (8 × 7)

_____ (70 × 7)

Expanded Multiplication

I can multiply two-digit by one-digit numbers using expanded multiplication.

1. 82 × 5 = _____

	H	T	O
		8	2
×			5

_____ (2 × 5)

_____ (80 × 5)

2. 63 × 6 = _____

	H	T	O
		6	3
×			6

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	H	T	O
		6	1
×			9

_____ (1 × 9)

_____ (60 × 9)

5. 78 × 7 = _____

	H	T	O
		7	8
×			7

_____ (8 × 7)

_____ (70 × 7)

6. 87 × 9 = _____

	H	T	O
×			

_____

_____

Expanded Multiplication

7. 92 × 8 = _____

       H   T   O

  ×

    _____

    _____

8. 85 × 7 = _____

       H   T   O

  ×

    _____

    _____

9. 98 × 8 = _____

       H   T   O

  ×

    _____

    _____

10. 75 × 6 = _____

       H   T   O

  ×

    _____

    _____

11. 88 × 8 = _____

       H   T   O

  ×

    _____

    _____

12. 96 × 6 = _____

       H   T   O

  ×

    _____

    _____

Expanded Multiplication

I can multiply two-digit by one-digit numbers using expanded multiplication.

1. 24 × 8 = _____

H	T	O
	2	4
×		8

_____ (4 × 8)

_____ (20 × 8)

2. 61 × 9 = _____

H	T	O
	6	1
×		9

_____ (1 × 9)

_____ (60 × 9)

3. 78 × 7 = _____

H	T	O
	7	8
×		7

_____ (8 × 7)

_____ (70 × 7)

4. 87 × 9 = _____

H	T	O
×		

_____

_____

5. 92 × 8 = _____

H	T	O
×		

_____

_____

6. 85 × 7 = _____

H	T	O
×		

_____

_____

Expanded Multiplication

7. 98 × 8 = _____

H	T	O

× _____

_____

8. 75 × 6 = _____

H	T	O

× _____

_____

9. 88 × 8 = _____

H	T	O

× _____

_____

10. 96 × 6 = _____

H	T	O

× _____

_____

Use expanded multiplication to solve these problems.

1. Isamu had 29 sheets of stickers. Each sheet contained eight stickers. How many stickers did he have in total?

2. Lucy fetched five packs of pens from the school office. If each pack contained 24 pens, how many pens did she have?

3. Skyla had 46 boxes of eggs. If each box contained six eggs, how many eggs did she have altogether?

Expanded Multiplication **Answers**

*

1. 28 × 3 = 84
2. 74 × 5 = 370
3. 47 × 4 = 188
4. 36 × 3 = 108
5. 74 × 4 = 296
6. 82 × 5 = 410
7. 63 × 6 = 378
8. 24 × 8 = 192
9. 61 × 9 = 549
10. 78 × 7 = 746

**

1. 82 × 5 = 410
2. 63 × 6 = 378
3. 24 × 8 = 192
4. 61 × 9 = 549
5. 78 × 7 = 546
6. 87 × 9 = 783
7. 92 × 8 = 736
8. 85 × 7 = 595
9. 98 × 8 = 784
10. 75 × 6 = 450
11. 88 × 8 = 704
12. 96 × 6 = 576

***

1. 24 × 8 = 192
2. 61 × 9 = 549
3. 78 × 7 = 746
4. 87 × 9 = 783
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9. 88 × 8 = 704
10. 96 × 6 = 576

Use expanded multiplication to solve these problems.

1. Isamu had 29 sheets of stickers. Each sheet contained eight stickers. How many stickers did he have in total? **29 × 8 = 232**

2. Lucy fetched five packs of pens from the school office. If each pack contained 24 pens, how many pens did she have? **5 × 24 = 120**

3. Skyla had 46 boxes of eggs. If each box contained six eggs, how many eggs did she have altogether? **46 × 6 = 276**