



Expanded Multiplication

I can multiply larger numbers using expanded multiplication (two and three-digit numbers).



1. $46 \times 5 =$ _____

| | H | T | O |
|-------|---|---|---|
| | | 4 | 6 |
| x | | | 5 |
| <hr/> | | | |

(6 × 5)
_____ (40 × 5)

2. $78 \times 4 =$ _____

| | H | T | O |
|-------|---|---|---|
| | | 7 | 8 |
| x | | | 4 |
| <hr/> | | | |

(8 × 4)
_____ (70 × 4)

3. $56 \times 7 =$ _____

| | H | T | O |
|-------|---|---|---|
| | | 5 | 6 |
| x | | | 7 |
| <hr/> | | | |

(6 × 7)
_____ (50 × 7)

4. $67 \times 4 =$ _____

| | H | T | O |
|-------|---|---|---|
| | | 6 | 7 |
| x | | | 4 |
| <hr/> | | | |

(7 × 4)
_____ (60 × 4)

5. $82 \times 8 =$ _____

| | H | T | O |
|-------|---|---|---|
| | | 8 | 2 |
| x | | | 8 |
| <hr/> | | | |

(2 × 8)
_____ (80 × 8)

6. $93 \times 9 =$ _____

| | H | T | O |
|-------|---|---|---|
| | | 9 | 3 |
| x | | | 9 |
| <hr/> | | | |

(3 × 9)
_____ (90 × 9)



Expanded Multiplication

Now try these with three-digit numbers.

1. $512 \times 3 =$ _____

| | T | H | T | O |
|---|---|---|---|---|
| | | 5 | 1 | 2 |
| x | | | | 3 |

2. $283 \times 5 =$ _____

| | T | H | T | O |
|---|---|---|---|---|
| | | 2 | 8 | 3 |
| x | | | | 5 |

3. $451 \times 4 =$ _____

| | T | H | T | O |
|---|---|---|---|---|
| | | 4 | 5 | 1 |
| x | | | | 4 |

4. $674 \times 3 =$ _____

| | T | H | T | O |
|---|---|---|---|---|
| | | 6 | 7 | 4 |
| x | | | | 3 |



Expanded Multiplication **Answers**

1. $46 \times 5 = 230$
2. $78 \times 4 = 312$
3. $56 \times 7 = 392$
4. $67 \times 4 = 268$
5. $82 \times 8 = 656$
6. $93 \times 9 = 837$

Now try these with three-digit numbers.

1. $512 \times 3 = 1536$
2. $283 \times 5 = 1415$
3. $451 \times 4 = 1804$
4. $674 \times 3 = 2022$



Expanded Multiplication

I can multiply larger numbers using expanded multiplication (two and three-digit numbers).



1. $567 \times 5 =$ _____

| | T | H | T | O |
|---|---|---|---|---|
| | | 5 | 6 | 7 |
| x | | | | 5 |

2. $325 \times 6 =$ _____

| | T | H | T | O |
|---|---|---|---|---|
| | | 3 | 2 | 5 |
| x | | | | 6 |

3. $423 \times 8 =$ _____

| | T | H | T | O |
|---|---|---|---|---|
| | | 4 | 2 | 3 |
| x | | | | 8 |

4. $228 \times 9 =$ _____

| | T | H | T | O |
|---|---|---|---|---|
| | | 2 | 2 | 8 |
| x | | | | 9 |

5. $421 \times 7 =$ _____

| | T | H | T | O |
|---|---|---|---|---|
| | | 4 | 2 | 1 |
| x | | | | 7 |

6. $329 \times 3 =$ _____



Expanded Multiplication

7. $821 \times 9 =$ _____

8. $632 \times 9 =$ _____

9. $923 \times 7 =$ _____

10. $877 \times 6 =$ _____

11. $350 \times 9 =$ _____

12. $999 \times 8 =$ _____



Expanded Multiplication **Answers**

1. $567 \times 5 = 2835$
2. $325 \times 6 = 1950$
3. $423 \times 8 = 3384$
4. $228 \times 9 = 2052$
5. $421 \times 7 = 2947$
6. $329 \times 3 = 987$
7. $821 \times 9 = 7389$
8. $632 \times 9 = 5688$
9. $923 \times 7 = 6461$
10. $877 \times 6 = 5262$
11. $350 \times 9 = 3150$
12. $999 \times 8 = 7992$



Expanded Multiplication

I can multiply larger numbers using expanded multiplication (two and three-digit numbers).



1. $567 \times 5 =$ _____

2. $325 \times 6 =$ _____

3. $423 \times 8 =$ _____

4. $228 \times 9 =$ _____

5. $421 \times 7 =$ _____

6. $329 \times 3 =$ _____



Expanded Multiplication

7. $821 \times 9 =$ _____

8. $632 \times 9 =$ _____

9. $923 \times 7 =$ _____

10. $877 \times 6 =$ _____

11. $350 \times 9 =$ _____

12. $999 \times 8 =$ _____

13. Kirsty has three packs of 425 sweets. Michael has four packs of 356 sweets.
Who has the most sweets? _____



Expanded Multiplication

14. Which hen laid the most eggs? Hetty laid 243 boxes of six eggs. Fluffy laid 213 boxes of eight eggs. _____

15. Who has read the most pages? Alma read seven books with 762 pages in each book. Ruben read three books with 874 pages in each book. _____



Expanded Multiplication **Answers**

1. $567 \times 5 = 2835$
2. $325 \times 6 = 1950$
3. $423 \times 8 = 3384$
4. $228 \times 9 = 2052$
5. $421 \times 7 = 2947$
6. $329 \times 3 = 987$
7. $821 \times 9 = 7389$
8. $632 \times 9 = 5688$
9. $923 \times 7 = 6461$
10. $877 \times 6 = 5262$
11. $350 \times 9 = 3150$
12. $999 \times 8 = 7992$
13. Kirsty has 1275, Michael has 1424. Michael has the most sweets.
14. Hetty laid 1458 eggs, Fluffy laid 1704 eggs. Fluffy laid the most eggs.
15. Alma read 5334 pages. Rubin read 2622 pages. Alma read the most pages