Short Multiplication

I can use short multiplication.

| | | 5 | 6 |
|---|---|---|---|
| × | | | 4 |
| | 2 | 2 | 4 |
| | | 2 | |

1.

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- 1. First set your calculation out correctly with one number in each square. Use a ruler to draw the lines.
- 2. Multiply the ones digit by 4. $(6 \times 4 = 24)$
- 3. Write the 2 tens in the tens column under the line. You need to carry this over to the tens column because it represents 20.
- 4. Now calculate the tens. Multiply 5 by 4. (5 \times 4 = 20)
- 5. Don't forget to add on the 2 tens that you carried. (20 + 2 = 22)

Cut out the cards. Place them face down in front of you. Choose a card and calculate the answer using the short method of multiplication.

| 49 x 3 | 8 x 75 | 3 x 55 |
|----------------------------|---|---|
| 71 x 8 | 8 x 31 | 91 times 3 |
| The product of 8 and 83 | 46 x 4 | 88 x 4 |
| 94 x 3 | 67 x 4 | 64 multiplied by 4 |
| twinkl planit | Maths Year 3 Multiplication and Division Mu | Itiplication Lesson 3 of 4: Expanded Multiplication |



1.

Now try these:

Short Multiplication

I can use short multiplication.

| | | 5 | 6 |
|---|---|---|---|
| × | | | 4 |
| | 2 | 2 | 4 |
| | | 2 | |

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- 5. Don't forget to add on the 2 tens that you carried. (20 + 2 = 22)

| 1. 49 x 3 | 2. 8 | x 75 | | 3. | 3 x 55 | | |
|------------------|-------------------|--------------|-------------|----|-----------|------------|---|
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| | | | | | | | |
| 4. 91 x 3 | 」 <u> </u> | he product o | of 8 and 83 | 6. | 64 multip | olied by 4 | ŀ |
| 4. 91 x 3 | 」 <u></u> . ⊤ . ⊤ | he product o | of 8 and 83 | 6. | 64 multip | blied by 4 | |
| 4. 91 x 3 | 5. T | he product o | of 8 and 83 | 6. | 64 multip | olied by 4 | |
| 4. 91 x 3 | 5. T | he product o | of 8 and 83 | 6. | 64 multip | olied by 4 | |
| 4. 91 x 3 | 5. T | he product o | of 8 and 83 | 6. | 64 multip | olied by 4 | |
| 4. 91 x 3 | 5. T | he product o | of 8 and 83 | 6. | 64 multip | plied by 4 | |



Short Multiplication

| 7) | 7 | 3 | 8) | 8 | 6 | 9) | 1 | 2 | 6 | 10) | 3 | 7 | 8 |
|----|---|---|----|---|---|----|---|---|---|-----|---|---|---|
| × | | 4 | × | | 3 | × | | | 4 | × | | | 8 |
| 2 | 8 | 2 | 2 | 5 | 8 | | 4 | 0 | 4 | 2 | q | 6 | 2 |
| | 1 | | | 1 | | | 1 | 2 | | | 5 | 6 | |

Mark these calculations with a \checkmark below if they are correct.

If they are wrong put an 🗴 and circle the part of the calculation where the mistake is.

7)

8)

| 9) |
|----|
| |

| 10) | |
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| | |

Now try these:

| 11. 149 x 4 | | | | | | | | |
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| 12. | 914 times 8 | | | | | | | |
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| 13. | 8 multiplied by 287 | | | | | | |
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| 14. | 3 x | 753 | | |
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plan it

| 15. | 4 m | 4 multiplied by 831 | | | | | | | |
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| 16 . | 3 x 556 | | | | | | | |
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Short Multiplication Answers

| 1. | | | 5 | 6 |
|----|---|---|---|---|
| | × | | | 4 |
| | | 2 | 2 | 4 |
| | | | 2 | |

- 1. First set your calculation out correctly with one number in each square. Use a ruler to draw the lines.
- 2. Multiply the ones digit by 4. $(6 \times 4 = 24)$
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- 5. Don't forget to add on the 2 tens that you carried. (20 + 2 = 22)

Cut out the cards. Place them face down in front of you. Choose a card and calculate the answer using the short method of multiplication.

| 49 x 3 = 147 | 8 x 75 = 600 | 3 x 55 = 165 |
|---|---------------------|------------------------------------|
| 71 x 8 = 568 | 8 x 31 = 248 | 91 times 3 = 273 |
| The product of 8 and 83 = 664 | 46 x 4 = 184 | 88 x 4 = 352 |
| 94 x 3 = 282 | 67 x 4 = 268 | 64 multiplied by 4 = 256 |



Short Multiplication Answers

| L. | | | 5 | 6 |
|----|---|---|---|---|
| | × | | | 4 |
| | | 2 | 2 | 4 |
| | | | 2 | |

- 1. First set your calculation out correctly with one number in each square. Use a ruler to draw the lines.
- 2. Multiply the ones digit by 4. $(6 \times 4 = 24)$
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- 4. Now calculate the tens. Multiply 5 by 4. $(5 \times 4 = 20)$
- 5. Don't forget to add on the 2 tens that you carried. (20 + 2 = 22)

| 49 × 3 = 147 | 2. 8 × | 75 = 600 | 3. 3 x 55 = 165 | | | |
|---------------------|---------------|-----------------|-------------------------------|-----------|--------------------|-------|
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| | | | | | | |
| 91 × 3 = 273 | 5. 8 x | 83 = 664 | 6. 64 m | ultiplied | by 4 = 25 0 | 6 |
| 91 x 3 = 273 | 5. 8 × | 83 = 664 | 6. 64 m | ultiplied | by 4 = 25 0 | 6 |
| 91 x 3 = 273 | 5. 8 × | 83 = 664 | 6. 64 m | ultiplied | by 4 = 25 0 | 6 |
| 21 × 3 = 273 | 5. 8 × | 83 = 664 | 6. 64 m | ultiplied | by 4 = 25 0 | 6 |
| 21 × 3 = 273 | 5. 8 × | 83 = 664 | 6. 64 m | ultiplied | by 4 = 25 | 6 |
| P1 × 3 = 273 | 5. 8 x | 83 = 664 | 6. 64 m | ultiplied | by 4 = 25 | 6 |
| 01 × 3 = 273 | 5. 8 x | 83 = 664 | 6. 64 m | ultiplied | by 4 = 25 | 6 |
| 91 × 3 = 273 | 5. 8 x | 83 = 664 | 6. 64 m | | by 4 = 250 | 6 |



A **Short Multiplication Answers**

| 7) | 7 | 3 | 8) | 8 | 6 | 9) | 1 | 2 | 6 | 10) | 3 | 7 | 8 |
|----|---|---|----|---|---|----|---|---|---|-----|---|---|---|
| × | | 4 | × | | 3 | × | | | 4 | × | | | 8 |
| 2 | 8 | 2 | 2 | 5 | 8 | | 4 | 0 | 4 | 2 | 9 | 6 | 2 |
| | | | | 1 | | | | 2 | | | 5 | 6 | |

Mark these calculations with a \checkmark below if they are correct.

If they are wrong put an * and circle the part of the calculation where the mistake is.

7) 8) X





Now try these:

| 11. 149 × 4 = 596 | | | | | | | | | |
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| 12. 914 times 8 = 7312 | | | | | | | | | |
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| 14. 3 × 753 = 2259 | | | | | | | | | |
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planit

15. 4 × 831 = 3324

| 16. 3 × 556 = 1668 | | | | | | | | | |
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