

Worksheets for multiplying up to 4-digits by 2-digits

5th Grade



Teaching Long Multiplication - Contents

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Resource instructions

Read the accompanying blog on Third Space Learning before using the resources provided.

Note: 'multiplicand' is a quantity which is to be multiplied by another.

How to use the worksheets below

- 1. Print out the worksheet, with 1 sheet covering every 2 students/groups.
- 2. Cut the worksheet in half (the questions are on there twice to save paper).
- 3. Hand the sheets out to your class, and get them to work through the questions in their maths books.
- 4. Watch them solve the problems using the method they have just learned!
- 5. Either hand out the answer sheet provided, or go through the answers on the whiteboard, opening them up to discussion.

Multiplying 2-digit by 2-digit

Instructions

- 1) Lay out the calculation in columns
- 2) Ones times multiplicand
- 3) Tens times multiplicand
- 4) Add the products

1	0	8	- (54 × 2)
	3	2	
	5	4	

Group 1

d)
$$46 \times 21 =$$

e)
$$33 \times 23 =$$

Group 2

a)
$$27 \times 19 =$$

c)
$$47 \times 23 =$$

d)
$$62 \times 25 =$$

e)
$$55 \times 42 =$$

Group 3

×

a)
$$50 \times 38 =$$

b)
$$68 \times 49 =$$

c)
$$37 \times 26 =$$

d)
$$93 \times 57 =$$

Multiplying 2-digit by 2-digit

Instructions

- 1) Lay out the calculation in columns
- 2) Ones times multiplicand
- 3) Tens times multiplicand
- 4) Add the products

2 0

$$(54 \times 2)$$
$$(54 \times 30)$$

6

a)
$$45 \times 14 =$$

d)
$$46 \times 21 =$$

b)
$$36 \times 31 =$$

c)
$$47 \times 23 =$$

d)
$$62 \times 25 =$$

a)
$$50 \times 38 =$$

b)
$$68 \times 49 =$$

c)
$$37 \times 26 =$$



Multiplying 2-digit by 2-digit

Answers

Group	Question	Answer
	a) 45 x 14 =	a) 630
	b) 57 x 15 =	b) 855
Group 1	c) 31 x 25 =	c) 775
	d) 46 x 21 =	d) 966
	e) 33 x 23 =	e) 759
	a) 27 x 19 =	a) 513
	b) 36 x 31 =	b) 1,116
Group 2	c) 47 x 23 =	c) 1,081
	d) 62 x 25 =	d) 1,550
	e) 55 x 42 =	e) 2,310
	a) 50 x 38 =	a) 1,900
	b) 68 x 49 =	b) 3,332
Group 3	c) 37 x 26 =	c) 962
	d) 93 x 57 =	d) 5,301
	e) 47 x 77 =	e) 3,619



Multiplying 3-digit by 2-digit

Instructions

- 1) Lay out the calculation in columns
- 2) Ones times multiplicand
- 3) Tens times multiplicand
- 4) Add the products

	1	5	4	
×		3	2	
	3	0	8	(154 × 2)
4	6	2	0	(154×30)

Group 1

a)
$$243 \times 13 =$$

c)
$$314 \times 25 =$$

d)
$$426 \times 23 =$$

e)
$$386 \times 35 =$$

Group 2

a)
$$249 \times 17 =$$

Group 3

a)
$$407 \times 35 =$$

c)
$$317 \times 67 =$$

d)
$$536 \times 59 =$$

e)
$$734 \times 63 =$$

Multiplying 3-digit by 2-digit

Instructions

- 1) Lay out the calculation in columns
- 2) Ones times multiplicand
- 3) Tens times multiplicand
- 4) Add the products

1 5 4

$$(154 \times 2)$$

 (154×30)

Group 1

e)
$$386 \times 35 =$$

Group 2

c)
$$492 \times 34 =$$

Group 3

c)
$$317 \times 67 =$$



Multiplying 3-digit by 2-digit

Answers

Group	Question	Answer
	a) 243 x 13 =	a) 3,159
	b) 417 x 15 =	b) 6,255
Group 1	c) 314 x 25 =	c) 7,850
	d) 426 x 23 =	d) 9,798
	e) 386 x 35 =	e) 13,510
	a) 249 x 17 =	a) 4,233
	b) 315 x 26 =	b) 8,190
Group 2	c) 492 x 34 =	c) 16,728
	d) 528 x 35 =	d) 18,480
	e) 753 x 52 =	e) 39,156
	a) 407 x 35 =	a) 14,245
	b) 628 x 46 =	b) 28,888
Group 3	c) 317 x 67 =	c) 21,239
	d) 536 x 59 =	d) 31,624
	e) 734 x 63 =	e) 46,242



Multiplying 4-digit by 2-digit

Instructions

- 1) Lay out the calculation in columns
- 2) Ones times multiplicand
- 3) Tens times multiplicand
- 4) Add the products

	2	1	5	4	
	×		3	2	
	4	3	0	8	(2,154 × 2)
5	4	6	2	0	$(2,154 \times 30)$

Group 1

d)
$$3,142 \times 23 =$$

e)
$$5,346 \times 37 =$$

Group 2

d)
$$3,086 \times 72 =$$

Group 3

b)
$$3,569 \times 53 =$$

c)
$$6,708 \times 84 =$$

Multiplying 4-digit by 2-digit

Instructions

- 1) Lay out the calculation in columns
- 2) Ones times multiplicand
- 3) Tens times multiplicand
- 4) Add the products

Group 1

d)
$$3,142 \times 23 =$$

Group 2

d)
$$3,086 \times 72 =$$

b)
$$3,569 \times 53 =$$



Multiplying 4-digit by 2-digit

Answers

Group	Question	Answer
	a) 1,542 x 15 =	a) 23,130
	b) 3,024 x 13 =	b) 39,312
Group 1	c) 2,634 x 24 =	c) 63,216
	d) 3,142 x 23 =	d) 72,266
	e) 5,346 x 37 =	e) 197,802
	a) 2,458 x 16 =	a) 39,328
	b) 1,796 x 27 =	b) 48,492
Group 2	c) 4,260 x 34 =	c) 144,840
	d) 3,086 x 72 =	d) 222,192
	e) 5,935 x 63 =	e) 373,905
	a) 4,918 x 36 =	a) 177,048
	b) 3,569 x 53 =	b) 189,157
Group 3	c) 6,708 x 84 =	c) 563,472
	d) 5,319 x 69 =	d) 367,011
	e) 4,826 x 83 =	e) 400,558

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Michelle Craig, Instructional Coach,

Sherwood Forest Elementary, Washington

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