Multiply a 2-Digit Number by a 1-Digit Number – with Exchange

1) Place value counters have been used to work out 34 × 5.

Tens	Ones
10 10 10	1 1 1 1
10 10 10	1 1 1 1
10 10 10	1 1 1 1
10 10 10	1 1 1 1
10 10 10	1 1 1 1

a) Copy and complete the statements.

3 tens × 5 = _____ tens
4 ones × 5 = _____ ones
_____ + _____ = _____

34 × 5 = _____

b) Use the place value counters to work out 44 × 3.

Tens	Ones
10 10 10 10	1 1 1 1
10 10 10 10	1 1 1 1
10 10 10 10	1 1 1 1

4 tens × 3 = _____ tens
4 ones × 3 = _____ ones
_____ + _____ = _____
44 × 3 = _____

2) Use a place value chart and place value counters to solve these multiplications.

a) 45 × 3

b) 38 × 4

c) 5 × 62

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Multiply a 2-Digit Number by a 1-Digit Number – with Exchange

1)

a) Explain the mistake Hari has made when working out 86 × 2.

Tens	Ones
10 10 10 10 10 10 10 10	1 1 1 1 1 1
10 10 10 10 10 10 10 10	1 1 1 1 1 1

8 tens × 2 = 160
6 ones × 2 = 12
160 + 12 = 280
86 × 2 = 280

b) Work out the correct answer to the multiplication.

2) Is Elena's statement correct? Prove it!

If I multiply 46 by 5, the answer is 250.

5 × 46 = 250

3) Which of these multiplications do you think is the odd one out? Explain your reasoning.

A 34 × 4

B 28 × 6

C 8 × 17

Multiply a 2-Digit Number by a 1-Digit Number – with Exchange

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a) Explain the mistake Hari has made when working out 86 × 2.

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Hari

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Elena

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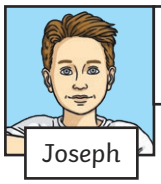
Multiply a 2-Digit Number by a 1-Digit Number – with Exchange

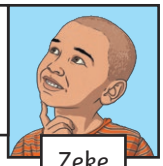
1) Joseph and Zeke are counting the books on each of their bookcases.



Joseph

My bookcase has 6 shelves. Each shelf has 23 books on it.

My bookcase has 4 shelves. There are 45 books on each shelf.



Zeke

Who has more books?

2)

a) Use these numbers to make as many different 2-digit number × 1-digit number multiplications as you can and work out the answers.

17	22	37	43

2	4	5

b) Sort the calculations into those that require one or more exchange (regroup) and those that do not.

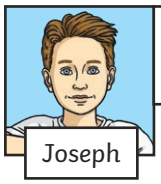
3) Is Jia's statement correct?
Investigate and prove your answer.

Jia

If you multiply a 2-digit number by a 1-digit number, the answer will always have 3 digits.

Multiply a 2-Digit Number by a 1-Digit Number – with Exchange

1) Joseph and Zeke are counting the books on each of their bookcases.



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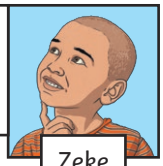

Zeke

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