

# Today, we are going to revise multiplication.

- Multiply a two-digit number by a two number
- Long multiplication
- Maths stories

# Quick Quiz

- Practice your times tables knowledge the daily ten
- Select your preferred times table and your preferred level.
- Do three tests, reduce your time as you go along eg 10 seconds, then 5 seconds then 3!
- Go to: [topmarks.co.uk/maths-games/dailyten](https://www.topmarks.co.uk/maths-games/dailyten)



$$67 \times 35$$

Estimation

It's useful to think of what the answer will nearly be.

Think of  $67 \times 35$  as almost  $70 \times 30$  which is 2,100.

So the actual answer will be somewhere in the region of 2,100.

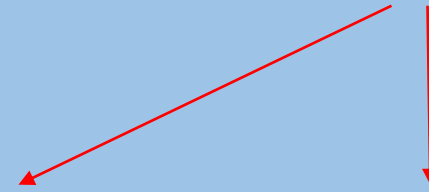
$$67 \times 35$$

- Can you use a short multiplication method?
- Only if you know your 35 times table off by heart and you can be certain you won't make a mistake!
- Not many people know their 35 times table well enough so we use long multiplication.

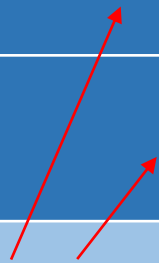
$$67 \times 35 =$$

- Grid Method would be like this

Partition 67 into 60 and 7



<b>x</b>	<b>60</b>	<b>7</b>
<b>30</b>		
<b>5</b>		



Partition 35 into 30 and 5.

$$67 \times 35 =$$

<b>x</b>	<b>60</b>	<b>7</b>
<b>30</b>	1800	210
<b>5</b>	300	35

$$67 \times 35 =$$

<b>x</b>	<b>60</b>	<b>7</b>	
<b>30</b>	1800	210	= 2010
<b>5</b>	300	35	= 35

$$2010 + 35 = 2045$$



$$67 \times 35 =$$

Long multiplication method is set out like this

	6	7
x	3	5

$$67 \times 35 =$$

We will partition the 35...

	6	7	
x	3	5	
			← 67 x 5
			← 67 x 30

$$67 \times 35 =$$

Secondly, do  $60 \times 5$  which is 300 plus the extra 30 is 330.

Do this first,  $7 \times 5 = 35$ .

First do  $67 \times 5$ ...

	6	7	
x	3	5	
3	3	5	$67 \times 5$
	3		$67 \times 30$

$$67 \times 35 =$$

Then, I rub out my re-grouped 3...

	6	7
x	3	5
3	3	5

←  $67 \times 5$

←  $67 \times 30$

$$67 \times 35 =$$

Then, I do  $67 \times 30$ ...

	6	7
x	3	5
3	3	5

←  $67 \times 5$

←  $67 \times 30$

$$67 \times 35 =$$

Begin by putting in one zero place holder because we are multiplying by 30.

	6	7
x	3	5
3	3	5
		0

← 67 x 5

← 67 x 30

$$67 \times 35 =$$

Do this bit first,  $3 \times 7 = 21$  (or  $30 \times 7 = 210$ )

Then this bit,  $6 \times 3$  plus 2 = 20 (or  $60 \times 30 = 1800$  plus 200)

		<b>6</b>	<b>7</b>	
	<b>x</b>	<b>3</b>	<b>5</b>	
	<b>3</b>	<b>3</b>	<b>5</b>	$67 \times 5$
<b>2</b>	<b>0</b>	<b>1</b>	<b>0</b>	$67 \times 30$
	<sub>2</sub>			

$$67 \times 35 =$$

Rub out the re-grouped 2 (200).

		6	7	
	x	3	5	
	3	3	5	← 67 x 5
2	0	1	0	← 67 x 30



$$67 \times 35 =$$

Add the sub-totals together.

		6	7	
	x	3	5	
	3	3	5	← 67 x 5
+	20	1	0	← 67 x 30
	23	4	5	

Try these...

		8	2
	x	3	7

		5	4
	x	1	6

# Answers...

		<b>8</b>	<b>2</b>
	<b>x</b>	<b>3</b>	<b>7</b>
	5	7	4
2	4	<sup>1</sup> 6	<b>0</b>
<b>3</b>	<b>0</b>	<b>3</b>	<b>4</b>
1	1		

		<b>5</b>	<b>4</b>
	<b>x</b>	<b>1</b>	<b>6</b>
	3	2	4
	5	<sup>2</sup> 4	<b>0</b>
	<b>8</b>	<b>6</b>	<b>4</b>

# Maths Story. Read this...

- If there are 32 children in every classroom, how many children would be in 15 classrooms?

- If there are 32 children in every classroom, how many children would be in 15 classrooms?
- So this means 32, 15 times.

32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
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- $32 \times 15$

Try to work it out...

		3	2
	x	1	5

Answer...

		3	2
	x	1	5
	1	6	0
+	3	<sup>1</sup> 2	0
	4	8	0

# Now try some independent practice.

- Copy the calculation down correctly.
- Know your time tables. If you are not sure use your student diary.
- Start from the right hand side.
- Work your way to the left.
- Re-group if necessary.
- Remember to add on the re-grouping.
- Place your answers in the correct column.
- Remember to add one zero place holder when calculating your second subtotal.