January

12 Times tables

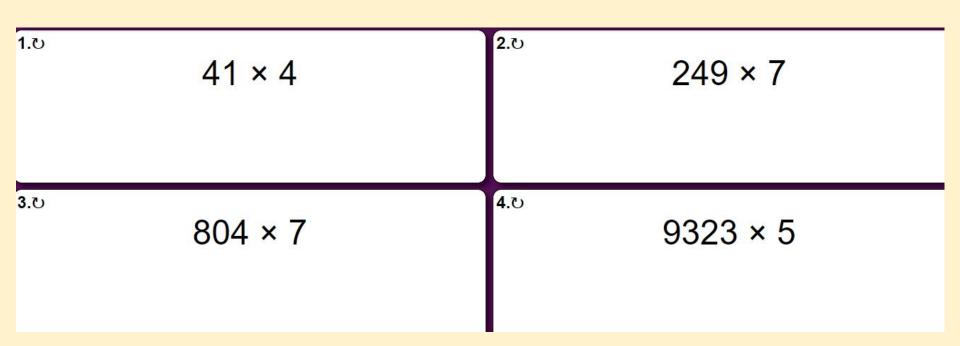
 $12 \times 0 = 0$ $12 \times 1 = 12$

 $12 \times 2 = 24$ $12 \times 3 = 36$

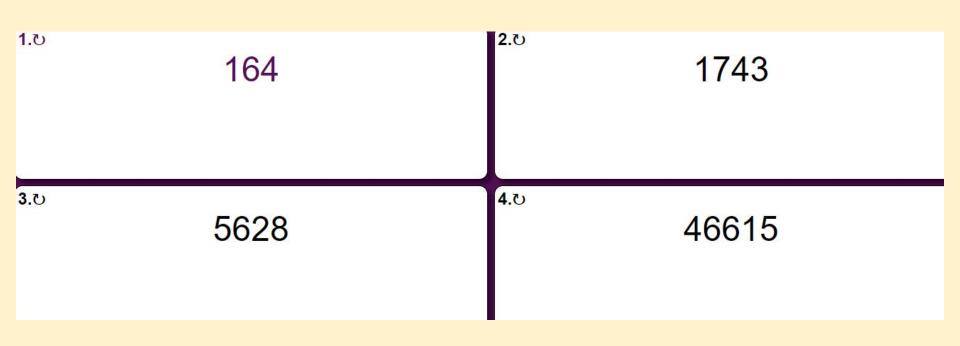
 $12 \times 4 = 48$ $12 \times 5 = 60$ $12 \times 6 = 72$ $12 \times 7 = 84$ $12 \times 8 = 96$ $12 \times 9 = 108$

 $12 \times 9 = 108$ $12 \times 10 = 120$ $12 \times 11 = 132$ $12 \times 12 = 144$

Arithmetic



Answers

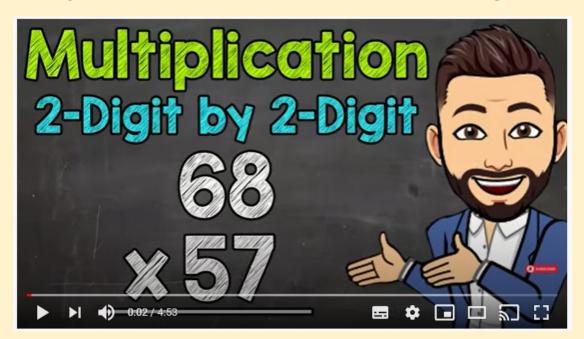


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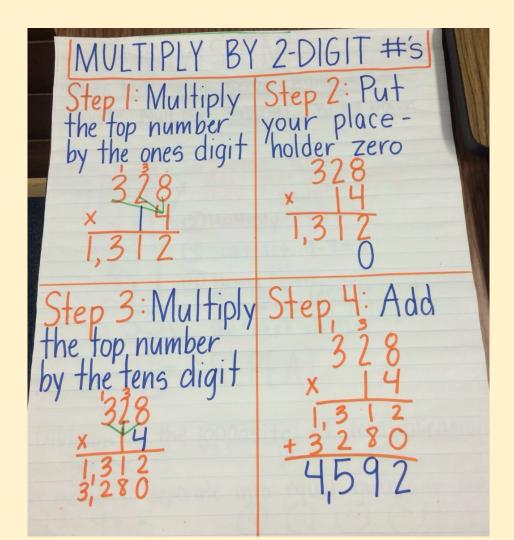
LO: To multiply 2 digits by 2 digits

Home learning support if needed. Please click on link and watch video.

https://www.youtube.com/watch?v=PZjIT9CH6bM



Strategy





Complete the calculation to work out 23×14

	1	4	
	9 1	2	(23×4)
2	3	0	(23×10^{-1})
	2	1	1

Use this method to calculate:

$$34 \times 26$$
 58×15 72×35





Complete to solve the calculation.

		4	6	
×		2	7	
	3	2 4	2	(×)
	9 1	2	0	(×)

Use this method to calculate:

$$27 \times 39$$
 46×55 94×49

Mathematical Talk

Why is the zero important?

What numbers are being multiplied in the first line and in the second line?

When do we need to make an exchange?

What can we exchange if the product is 42 ones?

If we know what 38×12 is equal to, how else could we work out 39×12 ?

TASKs

Task 1 Complete the questions on this presentation

Task 2 complete the worksheet Wednesday Worksheet, you decide where you start. Ensure you challenge yourself.

Once finished, do the thinking deeper questions on the next slides.

Mark your work once finished. Remember do not cheat. You will not learn that way.

Multiply 2-digits by 2-digits

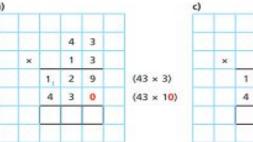


Complete the multiplications.

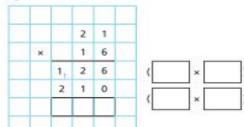
How did you work out your answers?



Fill in the missing numbers.



b)



Mo is calculating 34 x 23 Here is his working.

	3	4
×	2	3
1	, 0,	2
100	6	8
1	7.	0

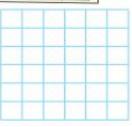
0 5

2

 (21×5)

 (21×20)

What mistake has Mo made? What is the correct answer? You may use the blank grid for your workings.



- Work out the multiplications.
 - a) 52 × 34 =
- c) 46 × 64 =



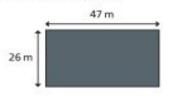
- b) 22 × 56 =
- d) 47 × 63 =



A machine prints 92 labels every minute.

How many labels will it print in three-quarters of an hour?

6 Here are two rectangles.



25 m	
	_

a) What is the area of this compound shape?

- 20	100	

b) What is the area of the shaded part?



\neg
- 1
- 1

Compare methods and answers with a partner. What is the same and what is different?

Multiply 2-digits by 2-digits

Complete the multiplications.



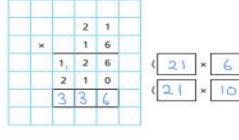
b)



a)
$$6 \times 6 = 36$$
 d) $7 \times 9 = 63$ $6 \times 60 = 360$ $7 \times 90 = 630$

c)
$$32 \times 3 = \boxed{9.6}$$

 $32 \times 30 = \boxed{9.60}$
f) $48 \times 3 = \boxed{1, u40}$



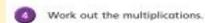


 (43×3)

 (43×10)

What mistake has Mo made?	
What is the correct answer?	×
You may use the blank grid	
for your workings.	

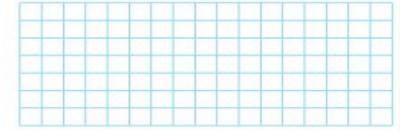
Rose Maths



- a) 52 × 34 = 1,768
- c) 46 x 64 = 2,944



- b) 22 × 56 = 1,232
- d) 47 x 63 = 2,961



A machine prints 92 labels every minute.

How many labels will it print in three-quarters of an hour?

6 Here are two rectangles.



a) What is the area of this compound shape?

	- 60	

2,022 m²

b) What is the area of the shaded part?

-	100
	-
	100

822 102

Compare methods and answers with a partner. What is the same and what is different?

Thinking

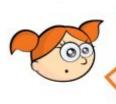
Amir has multiplied 47 by 36



		4	7
×		3	6
	2	8 4	2
	1	4 2	1
	3	2	3

Deeper

Alex says,



Amir is wrong because the answer should be 1,692 not 323

Who is correct?
What mistake has been made?

Alex is correct.

Amir has forgotten to use zero as a place holder when multiplying by 3 tens.