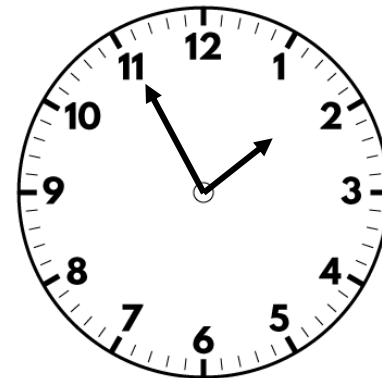
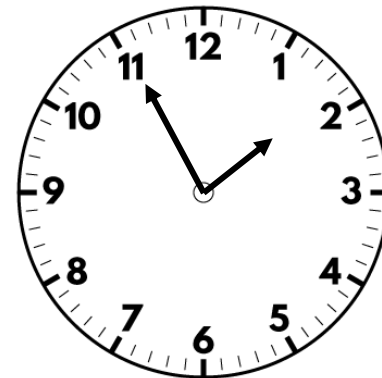




- 1) What is the area of a square with a side length of 6 cm?
- 2) What is 24×3 ?
- 3) Find the sum of £1,250 and £3,940
- 4) Write down a 4-digit number with 3 in the hundreds column.



- 1) What is the area of a square with a side length of 6 cm? 36 cm^2
- 2) What is 24×3 ? 72
- 3) Find the sum of £1,250 and £3,940 $£5190$
- 4) Write down a 4-digit number with 3 in the hundreds column. $_ 3 _ _$

Lesson 3- Multiply 2 by 2 digit numbers using written method

LO: To be able to multiply 2 by 2 digit numbers

Recall

Find the missing numbers and solve the calculations

x	?	9
70	5600	
?		45

Guided practice - My turn

- ▶ What mistake has Josh made?
- ▶ Look at Lexi's and Zac's methods.
- ▶ What is the same and what is different?

help

- ▶ A multiplication square may be helpful



- ▶ Who is correct?
- ▶ Solve the calculation using written method

Josh

	30	4
20	$30 \times 20 = 600$	$4 \times 20 = 80$
7	$30 \times 7 = 210$	$4 \times 7 = 28$

Th	H	T	O
	6	0	0
	2	1	0
	8	0	
+	2	8	
	1	8	9 0

34×27
Lexi

$$34 \times 20 = 680$$

	3	4
x		7
	2	3 8
		2

$$680 + 238 = 820$$

Zac

	3	4	
x	2	7	
	2	3 8	34×7
	6	8 0	34×20
	9	1 8	34×27
		1	

Guided practice - Your turn

- ▶ What mistake has Josh made?

- ▶ Look at Lexi's and Zac's methods.

- ▶ What is the same and what is different?

help

- ▶ A multiplication square may be helpful

Josh		
x	30	7
20	$30 \times 20 = 600$	$20 \times 7 = 140$
6	$30 \times 6 = 180$	$6 \times 7 = 42$

$$\begin{array}{r}
 \text{Th H T O} \\
 600 \\
 180 \\
 140 \\
 + 28 \\
 \hline
 1200
 \end{array}$$

$$26 \times 37$$

Lexi

$$37 \times 20 = 740$$

$$\begin{array}{r}
 37 \\
 \times 6 \\
 \hline
 222 \\
 4
 \end{array}$$

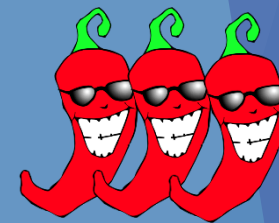
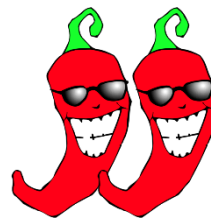
$$740 + 222 = 862$$

Zac

$$\begin{array}{r}
 37 \\
 \times 27 \\
 \hline
 222 \\
 740 \\
 \hline
 962
 \end{array}$$



- ▶ Who is correct?
- ▶ Solve the calculation using written method



Use grid method to solve these calculations.	Use written method to solve these calculations.	Use <u>both</u> grid and written method to solve these calculations.
1. 24×35 2. 37×36 3. 63×37 4. 46×38	1. 45×55 2. 33×56 3. 64×57 4. 28×58	1. 68×73 2. 64×74 3. 62×75 4. 65×76



Find the missing numbers and solve the calculation

$$\begin{array}{r}
 85 \\
 \times 63 \\
 \hline
 2?5 \quad 85 \times 3 \\
 5?00 \quad 85 \times 60 \\
 \hline
 \hline
 \end{array}$$

Dive Deeper 1



1)

Tennis balls are sold in packs of 34



Footballs are sold in packs of 14

A school buys 20 packs of tennis balls and 42 packs of footballs.

How many more tennis balls were bought than footballs?

2)

7b. Use the cards below to create a 2digits x 2 digit calculation to complete the answer shown. The cards can be used more than once.

x					
	3		1	5	



3

9

5

7

PS

3)

7. Match the calculations to the correct answers.

A.

			2	
x			1	6
			6	2
			4	
			7	0



432

B.

			2	6
x			2	
			7	8
			1	
		5		0
		1		

957

C.

			3	3
x				9
		2		7
		6	6	

598

VF

4)

22.

		4	
x			1
		4	7
		9	4
		0	
		9	8
		7	

23.

			5
x		2	
		5	8
		5	
		1	3
		0	0
		1	8
		8	5

24.

		3	
x			8
		2	9
		6	
		1	1
		1	0
		1	4
		0	6



Dive Deeper 2

1)

8a. Shyla is thinking of two numbers.



My first number is a multiple of 5 and 7. I multiply the number by a 2-digit odd number which is a multiple of 9. All the digits in the answer are odd.

What could Shyla's numbers be?

2)

Amir has multiplied 47 by 36



		4	7
x		3	6
	2	8	2
	1	4	1
	3	2	3

Alex says,



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

Who is correct?

What mistake has been made?

Trebling

