

Lesson 5- Multiply 4 by 2 digit numbers

LO: To be able to multiply 4 by 2 digit numbers

Recall

- Solve these multiplications

$$\begin{array}{r} 626 \\ 44 \\ \hline x \\ \hline \\ \hline \\ \hline \\ \hline \end{array}$$

x	30	7	5
20			
6			

Guided practice - My turn

- ▶ There are 1274 adults watching the show.
- ▶ How much money has been made from adult tickets?
- ▶ All the remaining seats have been filled with children.
- ▶ How much money has been made from the child tickets?



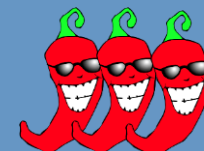
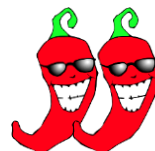
- ▶ How much money in total would they make if it was adults only?

Guided practice - Your turn

- ▶ There are 1274 adults watching the show.
- ▶ How much money has been made from adult tickets?
- ▶ All the remaining seats have been filled with children.
- ▶ How much money has been made from the child tickets?



- ▶ How much money in total would they make if it was adults only?



Use written method to solve these calculations.

1. $1353 \times 11 =$
2. $1452 \times 12 =$
3. $1275 \times 13 =$
4. $1353 \times 14 =$

Use written method to solve these calculations.

1. $2434 \times 24 =$
2. $2568 \times 25 =$
3. $2738 \times 26 =$
4. $2949 \times 27 =$

Use written method to solve these calculations.

1. $3456 \times 34 =$
2. $3456 \times 47 =$
3. $3456 \times 54 =$
4. $3456 \times 67 =$

Fill in the missing digits.

a)

$$\begin{array}{r}
 7 \text{ * } \\
 \times \quad 16 \\
 \hline
 4 \text{ * } 0 \\
 7 \text{ * } 0 \\
 \hline
 1 \text{ * } \text{ * } 0
 \end{array}$$

b)

$$\begin{array}{r}
 \text{ * } 4 \text{ * } q \\
 \times \quad \quad 36 \\
 \hline
 \text{ * } \text{ * } 45 \text{ * } \\
 7 \text{ * } \text{ * } \text{ * } 0 \\
 \hline
 \text{ * } \text{ * } \text{ * } \text{ * } 4
 \end{array}$$



I need to use the second line of calculation in b) to work out how many thousands are in the top number.



Dive Deeper 1

1)

Small Difference Questions

$25 \times 6 = \square$	$21 \times 30 = \square$
$23 \times 6 = \square$	$21 \times 15 = \square$
$18 \times 6 = \square$	$21 \times 16 = \square$
$18 \times 12 = \square$	$26 \times 16 = \square$
$36 \times 24 = \square$	$39 \times 16 = \square$
$41 \times 24 = \square$	$39 \times 24 = \square$

2)

Can you spot and correct the errors in the calculation?

		2	5	3	4
x				2	3
		₁ 7	5	₁ 9	2
		₁ 5	0	6	8
	1	2	₁ 6	₁ 6	0

3)

6b. A new kitchen costs £3,006 per house.

13 houses on Mitchell Terrace buy a new kitchen. The builder says the total cost is £39,068.



Is she correct? Explain your answer.

4)

Write the two missing digits to make this long multiplication correct.

		4	
	x		6
		2	4 6
		8	2 0
		1	0 6 6



Dive Deeper 2

1)

I know... so...

$$24 \times 18 = 432$$

$$30 \times 15 = 450$$

$$35 \times 12 = 420$$

$$24 \times 19 = \square$$

$$40 \times 15 = \square$$

$$38 \times 12 = \square$$

2)

A shop buys football shirts for £39 each and sells them for £49 each.

a) The shop buys 2,700 football shirts.

How much does it cost?

b) The shop sells all the football shirts.

How much profit does it make?

3)

8b. Use three of the digit cards to create a multiplication that equals approximately 145,000.

$$2,13 \square \times \square \square$$

1

3

6

8

4)

5a. Use two of these digit cards to create a multiplication to equal approximately 17,000.

$$1,422 \times \underline{\hspace{2cm}}$$

1

2

3

8