

Recall

► Solve these multiplications

$$\begin{array}{r} 67 \\ \times 3 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 96 \\ \times 4 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 78 \\ \times 5 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 89 \\ \times 6 \\ \hline \\ \hline \end{array}$$

Lesson 2- Multiply 2 by 2 digit numbers using grid method

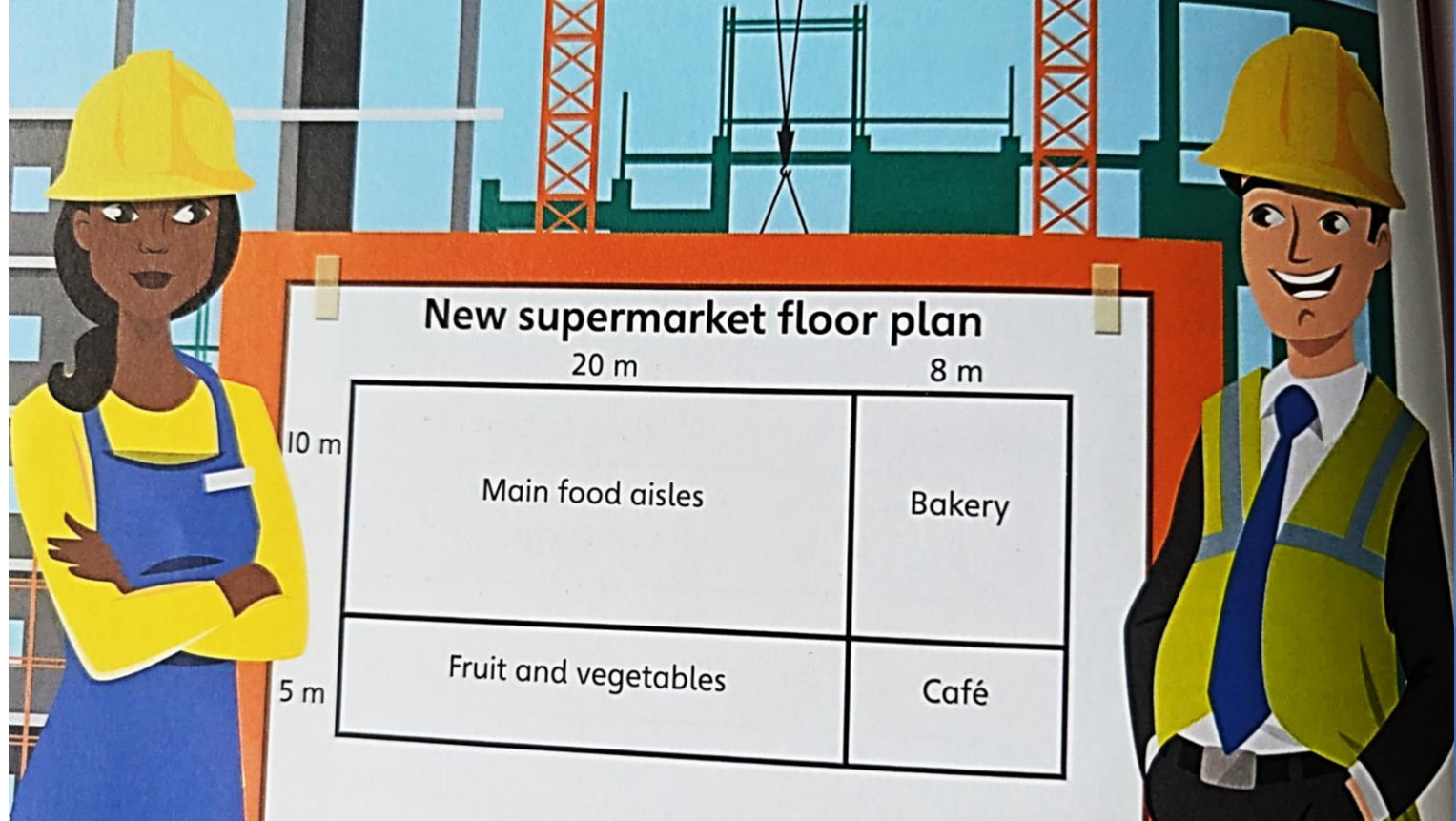
LO: To be able to multiply 2 by 2 digit numbers

Guided practice - My turn

- ▶ What will the length of the new supermarket be?
- ▶ What will the width be?
- ▶ What will the total area of the new supermarket be?

help

- ▶ A multiplication square may be helpful



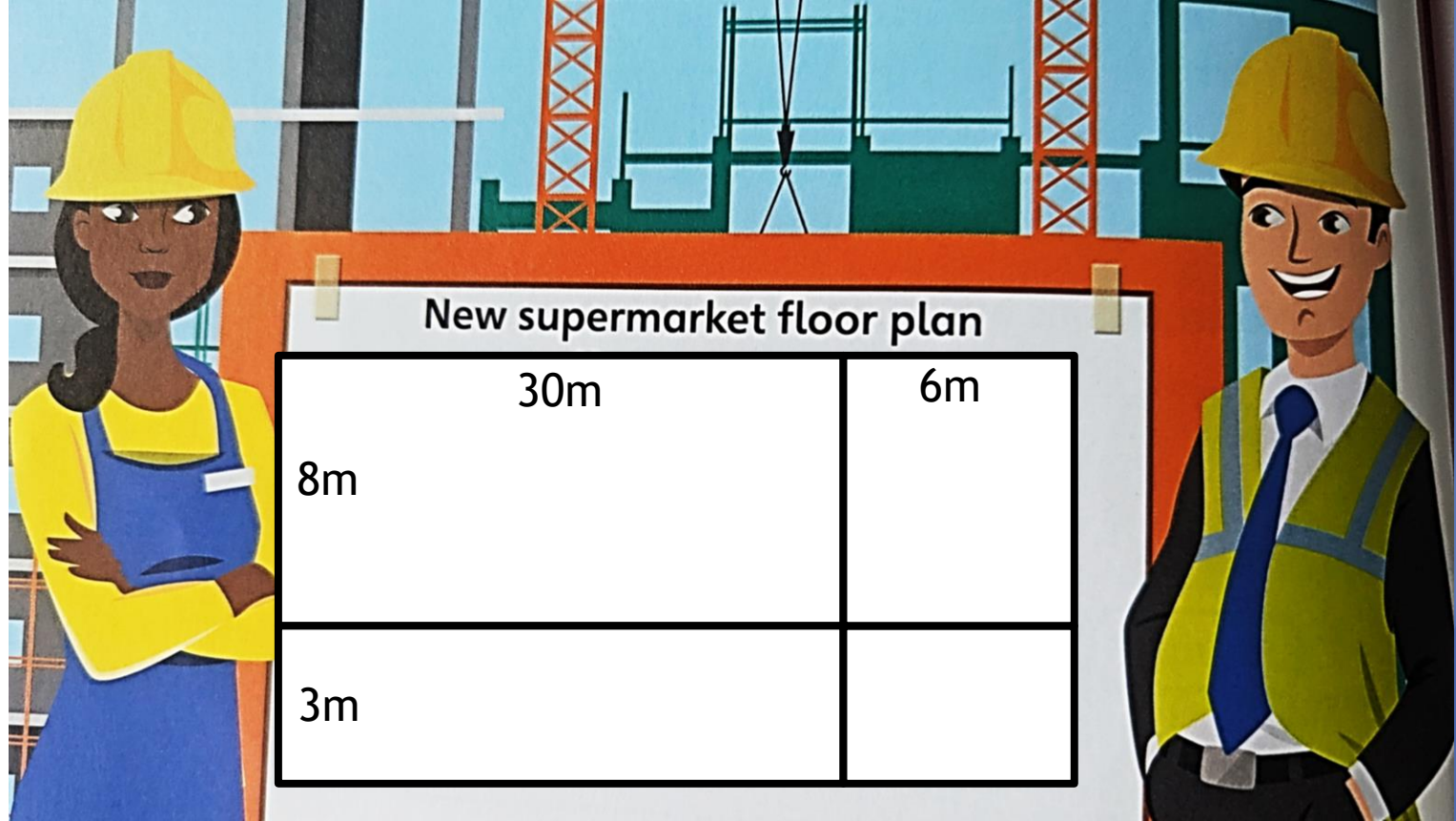
- ▶ I add a clothes section next to the main food and fruits and vegetables aisles. It is 4m in length and 15m wide.
- ▶ What is the new area?

Guided practice - My turn

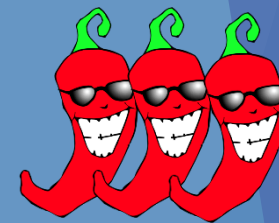
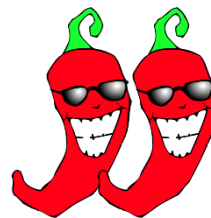
- ▶ What will the length of the new supermarket be?
- ▶ What will the width be?
- ▶ What will the total area of the new supermarket be?

help

- ▶ A multiplication square may be helpful
- ▶ TN: use grid method



- ▶ I add a clothes section next to the main food and fruits and vegetables aisles. It is 5m in length and 11m wide.
- ▶ What is the new area?



Use grid method to solve these calculations.

1. $67 \times 12 =$
2. $67 \times 23 =$
3. $67 \times 34 =$
4. $67 \times 45 =$

Use grid method to solve these calculations.

1. $67 \times 55 =$
2. $67 \times 64 =$
3. $67 \times 73 =$
4. $67 \times 82 =$

Use grid method to solve these calculations.

1. $87 \times 95 =$
2. $87 \times 96 =$
3. $87 \times 97 =$
4. $87 \times 98 =$

Find the missing numbers and solve the calculations



x	?	9
70	5600	
?		45

x	60	?
?		320
7	420	



Dive Deeper 1

1)

Fill in the missing numbers on this grid, then write a number sentence for the multiplication:

×		
	1550	240
	350	56

× =

2)

On a school trip, 19 coaches each carry 43 students. How many students went on the school trip?

×		

3)

6b. Andrew has made a mistake when using the area model.

	10	5
20	100 100 100 100	10 10 10 10 10 10 10 10 10 10
3	10 10 10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Explain the mistake he has made.

4)

Match the calculations to the correct answers.

		2	3
x		1	3

B.

		1	5
x		2	1

C.

		2	1
x		1	4

294

315

299



Dive Deeper 2

1)

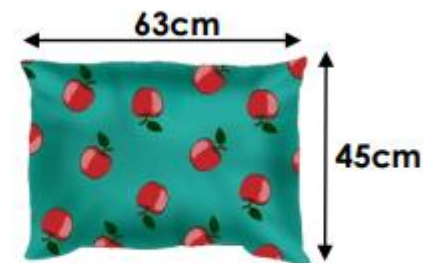
Reverse digits, same product

1. Try these multiplications:
 12×42 and 21×24 .
2. Now try 12×84 and 21×48 .
3. Now try 13×62 and 31×26 .
4. Then try 23×96 and 32×69 ,
then 24×63 and 42×36 .
5. What do you notice? Can you explain it?

Can you find another pair which 'work'
in the same way?

2a)

8b. Henry buys $2,500\text{cm}^2$ of fleece to make a cushion cover.



How much more fleece will Henry need?
Prove it using an area model.

2b)

9b. Michael thinks the answer to the calculation 63×23 is 1,448.

	60	3
20		
3		

Explain his mistake using the area model.