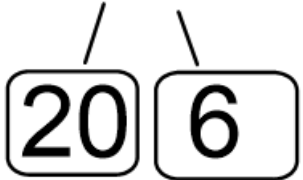


### 31.03.20 Y3 Maths – grid method multiplication

When a multiplication involves a tricky 2 digit number:

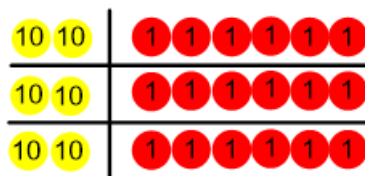
- 1) Partition it into its 10s and 1s to give yourself easier calculations.  
**26 becomes 20 and 6.**
- 2) Multiply the 1s by your other number.  
 **$3 \times 6 = 18$  Remember,  $3 \times 6 = 6 \times 3$  and we know the 3 x table.**
- 3) Multiply the 10s by your other number. Cover up the 0 to make the calculation easier. Then multiply that answer by 10.  
 **$3 \times 2 = 6$  so  $3 \times 20 = 60$**
- 4) Add the two answers in your grid to find your final answer.  
 **$60 + 18 = 78$  so  $3 \times 26 = 78$**

$$3 \times \boxed{26} = 78$$



20

6



	20	6
x 3	60	18

$3 \times 2 = 6$  $6 \times 3 = 18$

$3 \times 20 = 60$

**$60 + 18 = \underline{78}$**

1.  $3 \times 54 =$
2.  $4 \times 32 =$
3.  $8 \times 45 =$
4.  $67 \times 2 =$
5.  $84 \times 8 =$
6.  $93 \times 5 =$
7. Louis buys 4 jars of sweets. There are 56 sweets in each jar. How many sweets did Louis buy altogether?
8. Joel goes into his garden 5 times a day. He completes 48 kick-ups each time. How many kick-ups does he complete altogether?
9. Evie has 37 pairs of teddy bears. How many teddy bears are there in total?

Challenges are on the next page.

### Challenge 1:

Lola and Ellis are trying to work out  $24 \times 3$ .

Here is Lola's working:

$$\begin{array}{r} 24 \times 3 = 18 \\ \swarrow \searrow \\ 2 \quad 4 \end{array} \quad \begin{array}{r} 2 \quad 4 \\ \times 3 \quad \boxed{6} \quad \boxed{12} \\ 6 + 12 = 18 \end{array}$$

This is Ellis's working:

$$\begin{array}{r} 24 \times 3 = 6012 \\ \swarrow \searrow \\ 20 \quad 4 \end{array} \quad \begin{array}{r} 20 \quad 4 \\ \times 3 \quad \boxed{60} \quad \boxed{12} \\ 60 + 12 = 6012 \end{array}$$

Explain their mistakes.

### Challenge 2:

**Always? Sometimes? Never?**

When you multiply a 2 digit number and a 1 digit number, you get a 2 digit answer.

Explain your answer.