



THIRD SPACE
LEARNING

Can I use a range of written methods to multiply a 2-digit and a 1-digit number?

Success Criteria

- I can partition numbers
- I can multiply numbers using concrete resources
- I can explain if a written or a mental method would be more efficient



To use a range of written methods to multiply a 2-digit and a 1-digit number

In Focus Task

Which calculation is the easiest to solve?

$$20 \times 2 = 40$$

$$23 \times 2 = 46$$

$$22 \times 2 = 44$$

$$25 \times 2 = 50$$

$$27 \times 2 = 54$$

Answers



To use a range of written methods to multiply a 2-digit and a 1-digit number

Explain the difference between written and mental calculations.



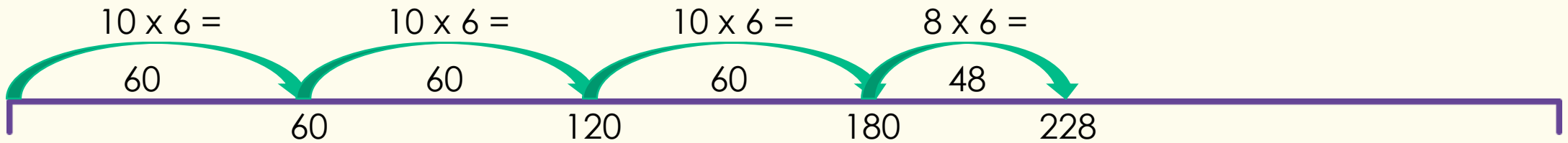
To use a range of written methods to multiply a 2-digit and a 1-digit number

Guided Practice:

We can use partitioning and a number line to solve multiplication questions.

For example:

38×6 can be partitioned into 10×6 , 10×6 , 10×6 and 8×6



Use a number line to solve these calculations:

$43 \times 7 = 301$

$32 \times 9 = 288$

Answers



To use a range of written methods to multiply a 2-digit and a 1-digit number

Independent Practice:

1. Draw a number line to solve these calculations.

a. $17 \times 8 =$

b. $27 \times 8 =$

c. $36 \times 9 =$

d. $56 \times 9 =$

e. $17 \times 6 =$

f. $47 \times 6 =$

g. $47 \times 9 =$

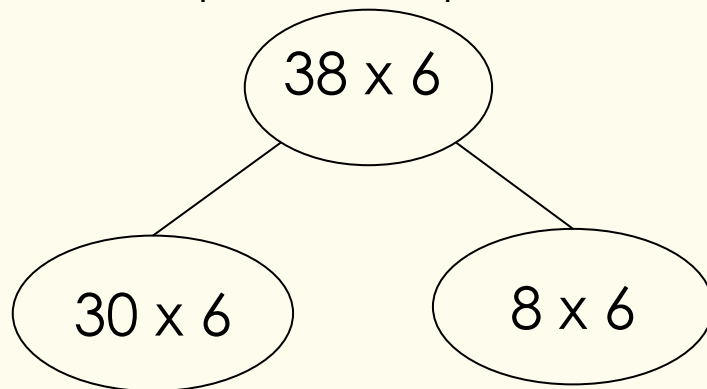


To use a range of written methods to multiply a 2-digit and a 1-digit number

Guided Practice:

We can also use concrete resources to complete multiplication calculations.

Tens	Ones



Partition these calculations into tens and ones then use concrete resources to complete these calculations.

$$37 \times 3 = 111$$

$$29 \times 6 = 174$$

Answers

To use a range of written methods to multiply a 2-digit and a 1-digit number

Independent Practice:

2. Use Base 10 and a part-whole model to solve these calculations.

a. $23 \times 7 =$

b. $24 \times 5 =$

c. $32 \times 7 =$

d. $33 \times 6 =$

e. $31 \times 4 =$

f. $29 \times 3 =$



To use a range of written methods to multiply a 2-digit and a 1-digit number

Guided Practice:

Which of these calculations would you solve mentally and which would you solve using a written method?

$$19 \times 6$$

$$58 \times 7$$

$$21 \times 8$$

$$72 \times 4$$

$$33 \times 6$$

$$21 \times 5$$



To use a range of written methods to multiply a 2-digit and a 1-digit number

Independent Practice:

3. Complete these calculations.

Explain the method you use for each calculation.

a. $19 \times 6 =$

b. $58 \times 7 =$

c. $21 \times 8 =$

d. $72 \times 4 =$

e. $33 \times 6 =$

f. $21 \times 5 =$



To use a range of written methods to multiply a 2-digit and a 1-digit number

Light Bulb Challenge

Which method would you use to solve this calculation?

$$24 \times 8$$

Explain your answer.