

To be able to use various informal written multiplication methods



Starter:

Which one doesn't belong?

- a) $4 \times 2 \times 5$
- b) $2 \times 3 \times 6$
- c) $3 \times 7 \times 5$
- d) $5 \times 4 \times 6$

Explain your answer.

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Activity 1:

There are 27 yoghurt pots in a crate.

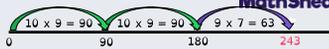
There are 9 crates.

How many yoghurt pots are there altogether?

Use a number line to solve the problem.

0

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Activity 2:

Use a number line to solve the following calculations:

- a) $17 \times 6 =$ _____
0
- b) $36 \times 4 =$ _____
0
- c) $23 \times 7 =$ _____
0

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Activity 3:

Use Ruth's strategy to calculate:

- a) 34×3
- b) 37×4
- c) 23×5
- d) 35×6



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Activity 4:

James has used a bar model to help him calculate 48 multiplied by 4.

$48 \times 4 = 480$	
$40 \times 4 = 160$	$8 \times 4 = 32$

Do you agree with James' result?

Explain your answer.

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Activity 5:

Look at the multiplications below:

- 86×5
- 17×9
- 22×3
- 36×8
- 65×4
- 34×7

Which multiplications would be most efficiently solved using a mental method?

Which multiplications would you choose to calculate using a written method?

Which methods have you chosen for each calculation?

Discuss with your partner – did you choose the same method, did you have the same / different reasons for choosing the same / different methods?

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Evaluation:



The most efficient way to solve 19×9 is by using a number line.

Do you agree?
Explain your answer.