## Homework/Extension

## Step 4: Multiply 3-Digits by 2-Digits

Teaching note: we have included grids for column multiplication and recommend that this resource is printed in colour or greyscale.

## National Curriculum Objectives:

Mathematics Year 5: (5C6a) Multiply and divide numbers mentally drawing upon known facts
Mathematics Year 5: (5C7a) Multiply numbers up to 4 digits by a one-or two-digit number using a formal written method, including long multiplication for two-digit numbers

## Differentiation:

Questions 1, 4 and 7 (Varied Fluency)
Developing Match the calculations to the correct answers. Calculations use fully expanded method and require no exchanges.
Expected Match the calculations to the correct answers. Calculations use a formal multiplication method and require up to two exchanges.
Greater Depth Match the calculations to the correct answers. Calculations use a formal multiplication method where the numbers in the questions are incomplete and require up to two exchanges.

Questions 2,5 and 8 (Varied Fluency)
Developing Complete each number statement using <, > or =. Calculations require no exchanges.
Expected Complete each number statement using <, > or =. Calculations require up to two exchanges.
Greater Depth Complete each calculation to make each statement correct. Calculations are incomplete and require up to two exchanges.

Questions 3,6 and 9 (Reasoning and Problem Solving)
Developing Calculate the area of the compound shape. Calculations use fully expanded method and require no exchanges.
Expected Calculate the area of the compound shape. Calculations use a formal multiplication method and require up to two exchanges.
Greater Depth Calculate the area of the compound shape. Calculations use a formal multiplication method where the numbers in the questions are incomplete and require up to two exchanges.

## More Year 5 Multiplication and Division resources.

Did you like this resource? Don't forget to review it on our website.

## Multiply 3-Digits by 2-Digits

1. Match the calculation to the correct answer.
A.

B.
$\begin{array}{r}203 \\ \times \quad 21 \\ \hline\end{array}$
C.

(20 x 4)

( $0 \times 1$ )
$(10 \times 2)$
$(300 \times 4)$
( $200 \times 1$ ) ( $300 \times 2$ )
( $1 \times 10$ )
( $20 \times 10$ )
( $300 \times 10$ )

|  |
| :--- |
| $\square$ |

$(3 \times 20)$ $(2 \times 30)$
( $0 \times 20$ ) ( $10 \times 30$ )
(200 x 20)
(300 x 30)
4,263
2. Complete each number statement using >, < or $=$.
A.
103 x 14
 1,314
B. $105 \times 11$

2,524
C. 315 x 12

3,780
3. Using the measurements of a single rectangle, calculate the area of the compound shape.


## Multiply 3-Digits by 2-Digits

4. Match the calculation to the correct answer.
A.

B.

C.
280

|  | 2 | 8 | 0 |
| :--- | :--- | :--- | :--- |
|  |  | 1 | 6 |

5. Complete each number statement using >, < or =.
A. 206 x

$107 x$
22
B. 328 x
$32 \bigcirc 234$
$234 x$
52
C. 405
x

$436 x$
23
6. Using the measurements of a single rectangle, calculate the area of the compound shape.


## Multiply 3-Digits by 2-Digits

7. Use the clues to complete the calculations below. Match them to the correct answer.
A.

B.

C.

16,128
20,928
17,422
8. Complete each calculation to make each statement correct.
A. 360
x 24
$=2 \square 0 \quad \mathrm{x}$
32
B. 282
x $14=$ $\square$ 88 x
21
C. 831
x $24=$
55 $\square$ x 36
9. Using the measurements of a single rectangle, calculate the area of the compound shape.


## Homework/Extension

## Multiply 3-Digits by 2-Digits

## Developing

1. A. 4,494 ; B. 4,263 ; C. 9,984
2. A. $>$, B. $<, C .=$
3. $122 \times 13=1,586 \mathrm{~mm}^{2} ; 1586 \times 4=6,344 \mathrm{~mm}^{2}$

## Expected

4. A. 19,482; B. 13,344; C. 4,480
5. A. $>$, B. $<, C .<$
6. $344 \times 23=7,912 \mathrm{~mm}^{2} ; 7912 \times 5=39,560 \mathrm{~mm}^{2}$

## Greater Depth

7. A. 20,928; B. 16,128; C. 17,422
8. A. $2 \underline{70} \times 32$, B. $188 \times 21,55 \underline{4} \times 36$
9. $2 \underline{2} 3 \times 32=7,136 \mathrm{~mm}^{2} ; 7,136 \times 8=57,088 \mathrm{~mm}^{2}$
