Homework/Extension
Step 2: Multiply 3 Numbers

National Curriculum Objectives:

Mathematics Year 4: (4C6a) Recall multiplication and division facts for multiplication tables up to 12 × 12
Mathematics Year 4: (4C6b) Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)
Developing Identify which calculation is the odd one out. Pictorial support given and the efficient grouping of the calculations is already complete.
Expected Identify which calculation is the odd one out. Some pictorial support or scaffolding to give direction to the most efficient grouping.
Greater Depth Complete calculations to make all the answers equal. No pictorial support or scaffolding to suggest the most efficient method.

Questions 2, 5 and 8 (Varied Fluency)
Developing Use inequality and equals symbols to complete the statements. Pictorial support given and the efficient grouping of the calculations is already complete.
Expected Use inequality and equals symbols to complete the statements. Some pictorial support or scaffolding to give direction to the most efficient grouping of the questions.
Greater Depth Complete a calculation to make an inequality statement correct. No pictorial support or scaffolding to suggest the most efficient method.

Questions 3, 6 and 9 (Reasoning and Problem Solving)
Developing Identify and explain which statement is correct. Pictorial support given and the efficient grouping of the calculations is already complete.
Expected Identify and explain which statement is correct. Calculation given complete and some scaffolding given within statement.
Greater Depth Identify and explain which statement is correct. Calculation incomplete and parameters given to identify missing number. No pictorial support or scaffolding to suggest the most efficient method.

More Year 4 Multiplication and Division resources.

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

Multiply 3 Numbers

1. Which calculation is the odd one out?

A.
$$5 \times 3 \times 4$$
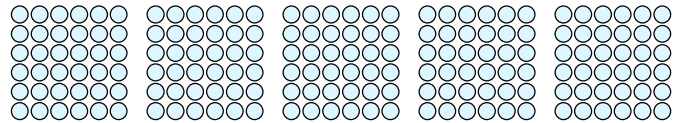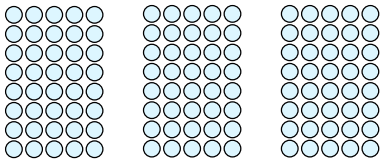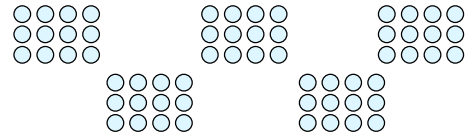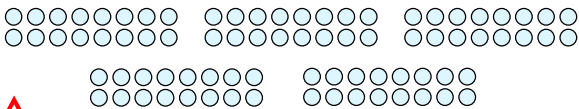
B.
$$5 \times 5 \times 4$$

C.
$$6 \times 5 \times 2$$

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2. Complete the statements below using the <, > or = symbol.

$$5 \times 8 \times 3 \qquad \boxed{} \qquad 6 \times 6 \times 5$$

$$8 \times 2 \times 5 \qquad \boxed{} \qquad 4 \times 3 \times 5$$
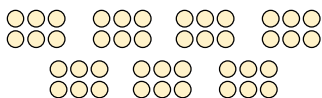
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HW/Ext

3. Mollie and Jeramiah are completing the calculation below. They have both calculated the answer in different ways.

$$3 \times 2 \times 7$$

Mollie

I worked out 3 x 2 first and then multiplied 6 by 7.

I worked out 7 x 3 first and then multiplied 21 by 2.

Jeramiah

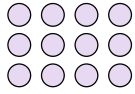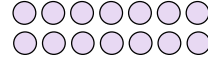**Who has completed the calculation correctly? Explain why.**

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Homework/Extension – Multiply 3 Numbers – Year 4 Developing

Multiply 3 Numbers

4. Which calculation is the odd one out?

A.

4 x 3 x 7

B.

7 x 2 x 6

C.

8 x 3 x 4
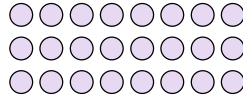
5. Complete the statements below using the <, > or = symbol.

7 x 3 x 2 ☐ **6 x 3 x 3**

4 x 2 x 6 ☐ **12 x 2 x 2**
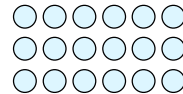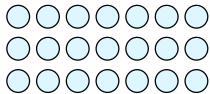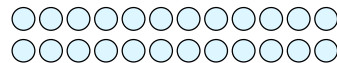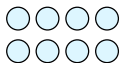
6. Sam and Georgia are completing the calculation below. They have both calculated the answer in different ways.

7 x 8 x 3

Sam: I worked out 7 x 8 first and then multiplied 56 by 3.

Georgia: I worked out 8 x 3 first and then multiplied 24 by 7.

Sam

Georgia

Who has completed the calculation correctly? Explain why.

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Homework/Extension – Multiply 3 Numbers – Year 4 Expected

Multiply 3 Numbers

7. Complete the calculations below so that all three are different but total the same number.

A.

4   x   4   x   3

B.

12   x   ☐   x   ☐

C.

☐   x   4   x   2

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8. Complete the calculations to make the statements correct.

9   x   ☐   x   4   =   9   x   3   x   ☐

8   x   ☐   x   3   >   6   x   6   x   ☐

9   x   ☐   x   ☐   <   5   x   3   x   ☐

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9. Mia and Liam are completing the calculation below. The missing number is less than 7 and the answer is an even number.

9   x   ☐   x   5

Mia: The missing digit is 4 because 9 x 4 x 5 gives an even answer.

Liam: The missing digit is 2 because it is less than 7.

Who has completed the calculation correctly? Explain why.

Developing

1. B

2. $5 \times 8 \times 3$ $\boxed{<}$ $6 \times 6 \times 5$; $8 \times 2 \times 5$ $\boxed{>}$ $4 \times 3 \times 5$

3. Both Mollie and Jeremiah are correct because both methods will give the correct answer. The order of the numbers does not change the answer.

Expected

4. C

5. $3 \times 7 \times 2$ $\boxed{<}$ $3 \times 6 \times 3$; $4 \times 2 \times 6$ $\boxed{=}$ $2 \times 12 \times 2$

6. Both Sam and Georgia are correct because both methods of completing the calculation will give the correct answer. The order of the numbers does not change the answer.

Greater Depth

7. B: $12 \times \boxed{2} \times \boxed{2}$; **C:** $\boxed{6} \times 4 \times 2$

8. Various answers, for example: $9 \times \boxed{6} \times 4 = 9 \times 3 \times \boxed{8}$; $8 \times \boxed{7} \times 3 > 6 \times 6 \times \boxed{4}$; $9 \times \boxed{2} \times \boxed{2} < 5 \times 3 \times \boxed{9}$

9. Both Liam and Mia are correct because they have chosen a number less than 7 that will give an even answer.