

Homework/Extension

Step 13: Order of Operations

National Curriculum Objectives:

Mathematics Year 6: (6C9) [Use their knowledge of the order of operations to carry out calculations involving the four operations](#)

Differentiation:

Question 1, 4 and 7 (Varied Fluency)

Developing Identify incorrect calculations using knowledge of the order of operations to solve calculations that include two operations. Use of all four operations and times-tables knowledge up to 12×12 .

Expected Identify incorrect calculations using knowledge of the order of operations to solve calculations that include up to three operations. Use of all four operations, brackets and times-tables knowledge up to 12×12 .

Greater Depth Identify incorrect calculations using knowledge of the order of operations to solve calculations that include up to three operations. Use of all four operations, brackets, indices and times-tables knowledge up to 12×12 .

Question 2, 5 and 8 (Varied Fluency)

Developing Complete the statements using $<$, $>$ and $=$ using knowledge of the order of operations to solve calculations that include two operations as described for Question 1.

Expected Complete the statements using $<$, $>$ and $=$ using knowledge of the order of operations to solve calculations that include up to three operations as described for Question 4.

Greater Depth Complete the statements using $<$, $>$ and $=$ using knowledge of the order of operations to solve calculations that include up to three operations as described for Question 7.

Question 3, 6 and 9 (Reasoning and Problem Solving)

Developing Complete the calculation using given digit cards and using knowledge of the order of operations to solve calculations that include two operations as described for Question 1.

Expected Complete the calculation using given digit cards and using knowledge of the order of operations to solve calculations that include two operations as described for Question 4.

Greater Depth Complete the calculation using given digit cards and using knowledge of the order of operations to solve calculations that include three operations as described for Question 7.

More [Year 6 Four Operations](#) resources.

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Order of Operations

1. Which of the calculations below are incorrect?

A. $16 + 8 \div 2 = 20$

B. $18 - 6 \times 2 = 24$

C. $22 \div 2 - 9 = 2$

D. $20 + 8 \div 4 = 7$



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

A. $24 \div 2 - 5$ $20 - 6 \times 2$

B. $16 \div 2 + 4$ $3 \times 2 + 6$

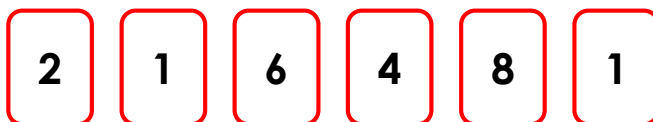
C. $15 \div 3 \times 2$ $7 + 6 \div 2$

D. $12 \times 4 \div 2$ $25 \div 5 + 10$



VF
HW/Ext

3. Arrange the digit cards below to complete the calculation. Use each digit card once only. Find two different calculations.



+ \div =



RPS
HW/Ext

Order of Operations

4. Which of the calculations below are incorrect?

A. $12 \times (6 - 4) = 68$

B. $16 + 9 \times 7 = 79$

C. $14 + 8 \div (2 \times 2) = 11$

D. $11 + 18 \div 6 = 14$



VF
HW/Ext

5. Complete the statements below using $<$, $>$ or $=$.

A. $24 + 8 \times 3$ $12 \times (6 - 2)$

B. $12 \div 2 \times (4 + 6)$ $12 \times 8 \div 2$

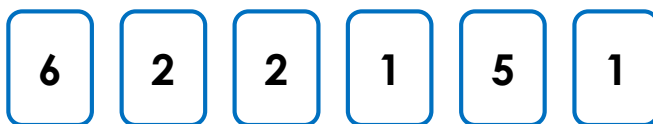
C. $16 + 4 \times 3$ $4 \times 7 + (9 - 2)$

D. $(99 - 66) \div 11$ $12 \times 9 - 20$



VF
HW/Ext

6. Arrange the digit cards below to complete the calculation. Use each digit card once only.



$$\boxed{} + \boxed{} \div \boxed{} = \boxed{}$$

Explain how brackets could be added so that the calculation gives a different answer.



RPS
HW/Ext

Order of Operations

7. Which of the calculations below are incorrect?

A. $48 \div 4 + 6 \times 2 = 9$

B. $9^2 - 18 \div 9 = 7$

C. $(8 \times 5) \div 10 + 16 = 20$

D. $7^2 + 14 \div 7 = 9$



VF
HW/Ext

8. Complete the statements below using $<$, $>$ or $=$.

A. $24 \div 2 + 11^2$ $\frac{1}{4} \times 10^2$

B. $(12 \times 4) - 6^2$ $9 \times 8 - 6^2$

C. $0.5 \times 16 + 9$ $9^2 - 8^2$

D. $12^2 - 6^2$ $10^2 \div 4 + 30$



VF
HW/Ext

9. Arrange the digit cards below to complete the calculation. Use each digit card once only.



2 - x =

Explain how brackets could be added so that the calculation gives a different answer.



RPS
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Homework/Extension

Order of Operations

Developing

1. **B and D**
2. **A <; B =; C =; D >**
3. **$16 + 4 \div 2 = 18$ and $18 + 6 \div 1 = 24$**

Expected

4. **A, B and C**
5. **A =; B >; C <; D <**
6. **$12 + 6 \div 2 = 15$**
Brackets could be added to make the calculation: $(12 + 6) \div 2 = 9$

Greater Depth

7. **A, B and D**
8. **A >; B <; C =; D >**
9. **$6^2 - 12 \times 2 = 12$**
Brackets could be added to make the calculation: $(6^2 - 12) \times 2 = 48$