
Number Calculations

This problem gives you the chance to:

- explore the order of number operations
-

1. When adding two numbers, it makes no difference to the answer if the order of the numbers is changed. Write an example that shows this.

2. When subtracting two numbers, it does make a difference to the answer if the order of the numbers is changed. Write an example that shows this.

Describe what happens to the answer of a subtraction calculation when the order of the two numbers is changed.

3. When multiplying two numbers, does the order of the numbers matter?
Use examples to explain your answer.

4. When dividing two numbers, does the order of the numbers matter?
Use examples to explain your answer.

5. Complete the table below to show whether each statement about the numbers a and b is correct (✓) or incorrect (X).

<i>Statement</i>	<i>✓ or X</i>
$a + b = b + a$	
$a - b = b - a$	
$a - b = -(b - a)$	
$a \times b = b \times a$	
$a \div b = b \div a$	

Task 3: Number Calculations		Rubric													
The core elements of performance required by this task are: <ul style="list-style-type: none"> • explore the order of number operations Based on these, credit for specific aspects of performance should be assigned as follows		points	section points												
1.	Gives correct example such as: $2 + 3 = 5$ and $3 + 2 = 5$	1	1												
2.	Gives correct example such as: $3 - 2 = 1$ and $2 - 3 = -1$ Makes statement such as: The answers are opposite	1 1	2												
3.	Gives correct examples to show that the order does not matter	1	1												
4.	Gives correct examples to show that the order does matter	1	1												
5.	See table. <table border="1" data-bbox="248 829 961 1024" style="margin: 10px auto;"> <thead> <tr> <th>Statement</th> <th>✓ or ✗</th> </tr> </thead> <tbody> <tr> <td>$a + b = b + a$</td> <td>✓</td> </tr> <tr> <td>$a - b = b - a$</td> <td>✗</td> </tr> <tr> <td>$a - b = -(b - a)$</td> <td>✓</td> </tr> <tr> <td>$a \times b = b \times a$</td> <td>✓</td> </tr> <tr> <td>$a \div b = b \div a$</td> <td>✗</td> </tr> </tbody> </table> Five answers correct 3 points Partial credit Four answers correct 2 points Three answers correct 1 point	Statement	✓ or ✗	$a + b = b + a$	✓	$a - b = b - a$	✗	$a - b = -(b - a)$	✓	$a \times b = b \times a$	✓	$a \div b = b \div a$	✗	3 (2) (1)	3
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Total Points			8												