

## Order of Operations

1a. Use the following numbers to create a calculation with the answers below.

2      4      5

| Answer | Calculations |
|--------|--------------|
| 40     |              |
| 22     |              |



PS

## Order of Operations

1b. Use the following numbers to create a calculation with the answers below.

5      2      3

| Answer | Calculations |
|--------|--------------|
| 30     |              |
| 13     |              |



PS

## Order of Operations

4a. Use the following numbers to create a calculation with the answers below.

10      3      5

| Answer | Calculations |
|--------|--------------|
| 150    |              |
| 45     |              |



PS

## Order of Operations

4b. Use the following numbers to create a calculation with the answers below.

12      4      3

| Answer | Calculations |
|--------|--------------|
| 84     |              |
| 144    |              |



PS

2a. Chuan is completing this calculation:

$$2 + 6 \div 2$$

The answer is 4.  
I did  $2 + 6 = 8$ ,  
then  $8 \div 2 = 4$ .



Chuan

Is he correct? Explain how you know.



R

2b. Alice is completing this calculation:

$$8 - 2 \div 2$$

The answer is 3.  
I did  $8 - 2 = 6$ ,  
then  $6 \div 2 = 3$ .



Alice

Is she correct? Explain how you know.



R

3a. Work out which child has completed the calculation correctly from their answers.

$$3 + 2 \times 7 =$$

My answer is 17.



Kelly

My answer is 35.



Hannah



PS

3b. Work out which child has completed the calculation correctly from their answers.

$$2 \times 5 - 3 =$$

My answer is 7.



Hafsa

My answer is 4.



Cian



PS

5a. Cian is completing this calculation:

$$12 \times 3 + 27 \div 9$$

The answer is 7.  
I did  $12 \times 3 = 36$ ,  
 $36 + 27 = 63$ ,  
then  $63 \div 9 = 7$ .



Cian

Is he correct? Explain how you know.



R

5b. Lucy is completing this calculation:

$$8 \times 5 + 20 \div 10$$

The answer is 42.  
I did  $20 \div 10 = 2$ ,  
then  $8 \times 5 = 40$ ,  
then  $40 + 2 = 42$ .



Lucy

Is she correct? Explain how you know.



R

6a. Work out which child has which calculation from their given answers.

A.  $6 \times 6 \div 3 \times 2$

B.  $6 \times 6 \div (3 \times 2)$

My answer is 24.



Steph

My answer is 6.



Chuan

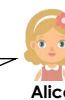


6b. Work out which child has which calculation from their given answers.

A.  $4 + 8 \times (3 + 7)$

B.  $4 + 8 \times 3 + 3$

My answer is 31.



Alice

My answer is 84.



Isabel



PS

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Reasoning and Problem Solving – Order of Operations – Year 6 Developing

## Order of Operations

7a. Use the following numbers to create a calculation with the answers below.

3      10      2      12

| Answer | Calculations |
|--------|--------------|
| 125    |              |
| 63     |              |



PS

## Order of Operations

7b. Use the following numbers to create a calculation with the answers below.

6      10      8      4

| Answer | Calculations |
|--------|--------------|
| 92     |              |
| 108    |              |



PS

8a. Josh is completing this calculation:

$$3^2 + 12 \times 10$$

The answer is 210.  
I did  $3^2 = 9$ ,  
then  $9 + 12 = 21$ ,  
then  $21 \times 10 = 210$ .



Josh

Is he correct? Explain how you know.



R

8b. Ben is completing this calculation:

$$4^2 \div 8 + 9 \times 10$$

The answer is 92.  
I did  $4^2 = 16$ ,  
then  $16 \div 8 = 2$ ,  
then  $9 \times 10 = 90$ ,  
then  $2 + 90 = 92$ .



Ben

Is he correct? Explain how you know.



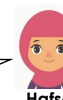
R

9a. Work out which child has which calculation from their given answers.

A.  $(4^2 \times \frac{1}{2}) \times (8 + 4)$

B.  $(4^2 \times \frac{1}{2}) \times 8 + 4$

My answer is 68.



Hafsa

My answer is 96.



Sinead



PS

9b. Work out which child has which calculation from their given answers.

A.  $(11^2 - 7^2) \div 9 - 1$

B.  $(11^2 - 7^2) \div (9 - 1)$

My answer is 7.



Johnny

My answer is 9.



Gabriel



PS

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Reasoning and Problem Solving – Order of Operations – Year 6 Greater Depth

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Reasoning and Problem Solving – Order of Operations – Year 6 Expected