# Inverse Pairs of Operations

## Section A

Sarah has boxed the following and labelled them ‘inverse pairs of operations’. In your book, draw the box and fill in the other half of the inverse pair.

1  2 

3  4 

## Section B

Simplify the following expressions in your book, boxing every inverse pair of operations and making it clear when you have moved numbers around:

1. 
2. 
3. 
4. 
5. 
6. 
7. 

## Section C

Stephen has simplified the following incorrectly. In your book explain his mistake and then simplify the expression correctly. Stephen wrote:



## Section D

In your book, simplify the following, justifying each step

1. 
2. 
3. Use 1 and 2 to help you simplify 
4. .
5. 
6. 

## Section E

James has simplified the following correctly, but he hasn’t justified a single step. Copy and complete, justifying the steps he has made.

1.  2.  3. 

**Section F**

For each of the following questions, choose which expression you would prefer to evaluate and then do so:

a)  or 

b)  or 

c)  or 

d)  or 

e)  or 

f)  or 

g)  or 

h)  or 

i)  or 

j)  or 

k)  or 

l)  or 

m)  or 

# Inverse Pairs - Homework

1. Copy and complete each box so that it contains an inverse pair of operations.

a  b  c 

d  e  f ..

1. Complete each calculation using **inverse pairs of operations** and **commutativity** where necessary.

is commutative

*Example*: 

inverse pair

of operations

a  b  c 

d  e  f 

g  h\* 

1. Which would you rather calculate? In each question, choose one of the two options, and calculate the answer.

a  or 

b  or 

c  or 

1. Jared has completed two incorrect calculations. Locate and describe the mistakes he has made:

a  b 

5\* Evaluate 