

# BINARY OPERATIONS WORKSHEET

COMPLETE THE BINARY OPERATIONS GIVEN IN EACH QUESTION BELOW

1) Given the binary operation  $\mathbf{a*b} = 2a^2 - b$ , find

a)  $2*3$

b)  $1*2$

c)  $-2*1$

d)  $3*2$

2) A binary operation is defined as  $\mathbf{p \blacksquare q} = q - 3p$ . Evaluate:

a)  $2 \blacksquare 1$

b)  $1 \blacksquare 2$

c) Is the operation  $\blacksquare$  commutative?

d)  $(1 \blacksquare 2) \blacksquare 3$