

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