

1.) $a + b - c * d / e - f + g * h$

infix	stack	Postfix
a	.	a
+	+	a
b	+	ab
-	-	ab+
c	-	ab+c
*	-*	ab+c
d	-*	ab+cd
/	- /	ab+cd*
e	- /	ab+cd*e
-	-	ab+cd*e/-
f	-	ab+cd*e/-f
+	+	ab+cd*e/-f-
g	+	ab+cd*e/-f-g
*	+	ab+cd*e/-f-g
h	+	ab+cd*e/-f-gh
		ab+cd*e/-f-gh+*

1) $2 + 3 - 4 * 5 / 6 - 7 + 8 * 9$

$= 66.6$

2. $a * b - c * d + e - f + g * h$

infix	Stack	Postfix
a		a
*	*	a
b	*	a b
-	-	a b *
c	-	a b * c
*	- *	a b * c
d	- *	a b * c d
+	+	a b * c d * -
e	+	a b * c d * - e
-	-	a b * c d * - e +
f	-	a b * c d * - e + f
+	+	a b * c d * e + f -
g	+	a b * c d * e + f - g
*	+ *	a b * c d * e + f - g
h	+ *	a b * c d * e + f - g h
		a b * c d * e + f - g h + *

2.) $2 * 3 - 4 * 5 + 6 - 7 + 8 * 9$
 $= 57$

SHOT ON BLACK SHARK
DUAL CAMERA

$$a + b * c * d / (e * f) * g + h$$

Infix	Stack	Postfix
a		a
+	+	a +
b	+	a b
*	+ *	a b *
c	+ *	a b c
*	+ *	a b c *
d	+ *	a b c * d
/	+ /	a b c * d /
(+ /	a b c * d / (
e	+ /	a b c * d / e
*	+ *	a b c * d * e /
f	+ *	a b c * d * e / f
)	+ *	a b c * d * e / f *
*	+ *	a b c * d * e / f * *
g	+ *	a b c * d * e / f * g
+	+	a b c * d * e / f * g +
h	+	a b c * d * e / f * g * + h
		a b c * d * e / f * g * + h +

$$3) 2 + 3 * 4 * 5 / [6 * 7] * 8 + 9$$

$$= 577$$

$$a+b - (c \times d) - e - f + g - h$$

infix	Stack	Post Fix
a		a
+	+	a
b	+	ab
-	-	ab+
c	-c	ab+
*	-c	ab+c
*	-(*)	ab+c*
d	-(*)	ab+cd
)	-	ab+cd*
-	-	ab+cd*-
e	-	ab+cd*-e
-	-	ab+cd*-e-
f	-	ab+cd*-e-f
+	+	ab+cd*-e-f-
g	+	ab+cd*-e-f-g
-	-	ab+cd*-e-f-g+
h	-	ab+cd*-e-f-g+h
		ab+cd*-e-f-g+h-

$$4.) \quad 2+3-(4 \times 5)-6-7+8-9$$

$$= 1$$

$$a + (b + c) * d / e + f / g * h$$

infix	Stack	Postfix
a		a
+	+	a
(+(a
b	+(b	ab
+	+(b+	ab
c	+(b+c	abc
)	+	abc+
*	*+	abc+
d	*d	abc+d
/	/+	abc+d+
e	/+	abc+d*e
+	+	abc+d*e+
f	+	abc+d*e/+f
/	/+	abc+d*e/+f
g	/+	abc+d*e/+fg
*	*+	abc+d*e/+fg/
h	*+	abc+d*e/+fg/h
		abc+d*e/+fg/h+

5.) $2 + (3 + 4) * 5 / 6 + 7 / 8 * 9$

$$= 0.03$$