

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-g
		ab+cd*e/-f-g*+h

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	*	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-g
		ab*cd*-e+f-g*+

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

= 57

SUBJECT :

NO :

DATE :

3) $a + b * c * d / [e * f] * g + h$

Infix	Stack	Postfix
a		a
+	+	a
b	+	ab
*	+	ab
c	+	abc
*	+	abc*
d	+	abc*d
/	+/	abc*d*
[+/	abc*d*
e	+/	abc*d*e
*	+	abc*d*e/
+	+	abc*d*e/f
]	+	abc*d*e/f*
*	+	abc*d*e/f*
g	+	abc*d*e/f*g
+	+	abc*d*e/f*g+
h	+	abc*d*e/f*g*+h
		abc*d*e/f*g*+h+

9) $2 + 3 * 4 * 5 / [6 * 7] * 8 + 9$
 $= 571$



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4) $a + [b + c] * d / e + f / g * h$

Infix	Stack	Postfix
		a
+	+	a
+	+	a
+	+	ab
+	+	ab +
+	+	ab + c
+	+	ab + c
+ *	+ *	ab + c
+ *	+ *	ab + cd
+ /	+ /	ab + cd *
+ /	+ /	ab + cd * e
+	+	ab + cd * e / +
+	+	ab + cd * e / + f
+ /	+ /	ab + cd * e / + f
+ /	+ /	ab + cd * e / + fg
+ *	+ *	ab + cd * e / + fg /
+ *	+ *	ab + cd * e / + fg / h
		ab + cd * e / + fg / h * +

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

$$= 16.2083$$

$$5) a/b * c * d * (e-f) + g^1 h$$

Infix	Stack	Postfix
	*	a
	/	a
	/	ab
	*	ab/
	*	ab/c
	*	ab/c*
	*	ab/c*d
	*	ab/c*d
	*	ab/c*d e
	-	ab/c*d e*
	-	ab/c*d e*f
	-	ab/c*d e*f
	+	ab/c*d e*f-
	+	ab/c*d e*f-g
	+1	ab/c*d e*f-g
	+1	ab/c*d e*f-g h
		ab/c*d e*f-g h^1+

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

$$= 134,217,801$$

