Conversion Display

Infix Expression Postfix Expression Stack Contents

8-(3+5) 8 Empty

-(3+5) 8 -

(3+5) 8 ( -

3+5) 83 ( -

+5) 83 + ( -

5) 835 + ( -

) 835+ -

Empty 835+- Empty

Evaluation Display

Postfix Expression Stack Contents

835+- Empty

835+- 8

35+- 3 8

5+- 5 3 8

+- 8 8

- 0

Original Expression and The Answer:

8-(3+5) = 0

Conversion Display

Infix Expression Postfix Expression Stack Contents

3+4\*5 3 Empty

+4\*5 3 +

4\*5 34 +

\*5 34 \* +

5 345 \* +

Empty 345\*+ Empty

Evaluation Display

Postfix Expression Stack Contents

345\*+ Empty

345\*+ 3

45\*+ 4 3

5\*+ 5 4 3

\*+ 20 3

+ 23

Original Expression and The Answer:

3+4\*5 = 23

Conversion Display

Infix Expression Postfix Expression Stack Contents

3\*7-4/2 3 Empty

\*7-4/2 3 \*

7-4/2 37 \*

-4/2 37\* \*

4/2 37\*4 \*

/2 37\*4 / \*

2 37\*42 / \*

Empty 37\*42/\* Empty

Evaluation Display

Postfix Expression Stack Contents

37\*42/\* Empty

37\*42/\* 3

7\*42/\* 7 3

\*42/\* 21

42/\* 4 21

2/\* 2 4 21

/\* 2 21

\* 42

Original Expression and The Answer:

3\*7-4/2 = 42

Conversion Display

Infix Expression Postfix Expression Stack Contents

(7+2)\*3 Empty (

7+2)\*3 7 (

+2)\*3 7 + (

2)\*3 72 + (

)\*3 72+ Empty

\*3 72+ \*

3 72+3 \*

Empty 72+3\* Empty

Evaluation Display

Postfix Expresssion Stack Contents

72+3\* Empty

72+3\* 7

2+3\* 2 7

+3\* 9

3\* 3 9

\* 27

Original Expression and The Answer:

(7+2)\*3 = 27

Conversion Display

Infix Expression Postfix Expression Stack Contents

3\*(2-6) 3 Empty

\*(2-6) 3 \*

(2-6) 3 ( \*

2-6) 32 ( \*

-6) 32 - ( \*

6) 326 - ( \*

) 326- \*

Empty 326-\* Empty

Evaluation Display

Postfix Expression Stack Contents

326-\* Empty

326-\* 3

26-\* 2 3

6-\* 6 2 3

-\* -4 3

\* -12

Original Expression and The Answer:

3\*(2-6) = -12

Conversion Display

Infix Expression Postfix Expression Stack Contents

(2+3)\*(6-4) Empty (

2+3)\*(6-4) 2 (

+3)\*(6-4) 2 + (

3)\*(6-4) 23 + (

)\*(6-4) 23+ Empty

\*(6-4) 23+ \*

(6-4) 23+ ( \*

6-4) 23+6 ( \*

-4) 23+6 - ( \*

4) 23+64 - ( \*

) 23+64- \*

Empty 23+64-\* Empty

Evaluation Display

Postfix Expression Stack Contents

23+64-\* Empty

23+64-\* 2

3+64-\* 3 2

+64-\* 5

64-\* 6 5

4-\* 4 6 5

-\* 2 5

\* 10

Original Expression and The Answer:

(2+3)\*(6-4) = 10

Conversion Display

Infix Expression Postfix Expression Stack Contents

(3+4)\*8-(7\*3-4) Empty (

3+4)\*8-(7\*3-4) 3 (

+4)\*8-(7\*3-4) 3 + (

4)\*8-(7\*3-4) 34 + (

)\*8-(7\*3-4) 34+ Empty

\*8-(7\*3-4) 34+ \*

8-(7\*3-4) 34+8 \*

-(7\*3-4) 34+8\* \*

(7\*3-4) 34+8\* ( \*

7\*3-4) 34+8\*7 ( \*

\*3-4) 34+8\*7 \* ( \*

3-4) 34+8\*73 \* ( \*

-4) 34+8\*73\* \* ( \*

4) 34+8\*73\*4 \* ( \*

) 34+8\*73\*4\* \*

Empty 34+8\*73\*4\*\* Empty

Evaluation Display

Postfix Expression Stack Contents

34+8\*73\*4\*\* Empty

34+8\*73\*4\*\* 3

4+8\*73\*4\*\* 4 3

+8\*73\*4\*\* 7

8\*73\*4\*\* 8 7

\*73\*4\*\* 56

73\*4\*\* 7 56

3\*4\*\* 3 7 56

\*4\*\* 21 56

4\*\* 4 21 56

\*\* 84 56

\* 4704

Original Expression and The Answer:

(3+4)\*8-(7\*3-4) = 4704

Conversion Display

Infix Expression Postfix Expression Stack Contents

4\*3/2+4\*5\*2-8/4/2 4 Empty

\*3/2+4\*5\*2-8/4/2 4 \*

3/2+4\*5\*2-8/4/2 43 \*

/2+4\*5\*2-8/4/2 43 / \*

2+4\*5\*2-8/4/2 432 / \*

+4\*5\*2-8/4/2 432/\* \*

4\*5\*2-8/4/2 432/\*4 \*

\*5\*2-8/4/2 432/\*4 \* \*

5\*2-8/4/2 432/\*45 \* \*

\*2-8/4/2 432/\*45 \* \* \*

2-8/4/2 432/\*452 \* \* \*

-8/4/2 432/\*452\*\*\* \*

8/4/2 432/\*452\*\*\*8 \*

/4/2 432/\*452\*\*\*8 / \*

4/2 432/\*452\*\*\*84 / \*

/2 432/\*452\*\*\*84 / / \*

2 432/\*452\*\*\*842 / / \*

Empty 432/\*452\*\*\*842//\* Empty

Evaluation Display

Postfix Expression Stack Contents

432/\*452\*\*\*842//\* Empty

432/\*452\*\*\*842//\* 4

32/\*452\*\*\*842//\* 3 4

2/\*452\*\*\*842//\* 2 3 4

/\*452\*\*\*842//\* 1 4

\*452\*\*\*842//\* 4

452\*\*\*842//\* 4 4

52\*\*\*842//\* 5 4 4

2\*\*\*842//\* 2 5 4 4

\*\*\*842//\* 10 4 4

\*\*842//\* 40 4

\*842//\* 160

842//\* 8 160

42//\* 4 8 160

2//\* 2 4 8 160

//\* 2 8 160

/\* 4 160

\* 640

Original Expression and The Answer:

4\*3/2+4\*5\*2-8/4/2 = 640

Conversion Display

Infix Expression Postfix Expression Stack Contents

5\*((9/3+1)\*(6-4))+1 5 Empty

\*((9/3+1)\*(6-4))+1 5 \*

((9/3+1)\*(6-4))+1 5 ( \*

(9/3+1)\*(6-4))+1 5 ( ( \*

9/3+1)\*(6-4))+1 59 ( ( \*

/3+1)\*(6-4))+1 59 / ( ( \*

3+1)\*(6-4))+1 593 / ( ( \*

+1)\*(6-4))+1 593/ / ( ( \*

1)\*(6-4))+1 593/1 / ( ( \*

)\*(6-4))+1 593/1/ ( \*

\*(6-4))+1 593/1/ \* ( \*

(6-4))+1 593/1/ ( \* ( \*

6-4))+1 593/1/6 ( \* ( \*

-4))+1 593/1/6 - ( \* ( \*

4))+1 593/1/64 - ( \* ( \*

))+1 593/1/64- \* ( \*

)+1 593/1/64-\* \*

+1 593/1/64-\*\* \*

1 593/1/64-\*\*1 \*

Empty 593/1/64-\*\*1\* Empty

Evaluation Display

Postfix Expression Stack Contents

593/1/64-\*\*1\* Empty

593/1/64-\*\*1\* 5

93/1/64-\*\*1\* 9 5

3/1/64-\*\*1\* 3 9 5

/1/64-\*\*1\* 3 5

1/64-\*\*1\* 1 3 5

/64-\*\*1\* 3 5

64-\*\*1\* 6 3 5

4-\*\*1\* 4 6 3 5

-\*\*1\* 2 3 5

\*\*1\* 6 5

\*1\* 30

1\* 1 30

\* 30

Original Expression and The Answer:

5\*((9/3+1)\*(6-4))+1 = 30