Simplify the following:

\[2 + 6 \cdot 3 - 5\]

\[15\]

\[3 + 2 (11 - 2 \cdot 3)\]

\[13\]

Evaluate each expression if: \(x = 4\); \(y = 3\); and \(b = 1\)

\[4x - 3y + b\]

\[4xy + 7b\]

\[\frac{x + b}{x + b}\]

\[8\]

\[11\]

Multiply:

\[7(3 + 5y)\]

\[21 + 35y\]

\[4(5z + 3b - 9t)\]

\[20z + 12b - 36t\]

Simplify; Be sure to show all your work.

\[\frac{7 \cdot 24}{8 \cdot 49}\]

\[\frac{3 \div 6}{4 \div 7}\]

\[\frac{9 - 1}{13 - 2}\]

Answers:

\[\frac{3}{7}\]

\[\frac{7}{8}\]

\[\frac{5}{26}\]

Follow the directions for problems (a) through (d)

a) Rewrite using only the commutative law of multiplication:

\[16n + st\]

\[n \cdot 16 + ts\]

b) Rewrite using only the associative law of multiplication:
\[ 3(ab) \]
\[ (3a)b \]

c) Rewrite using only the commutative law of addition:
\[ 8m + 2n \]
\[ 2n + 8m \]

d) Rewrite using only the associative law of addition:
\[ (a + b) + 9 \]
\[ a + (b + 9) \]