

Distribute and Evaluate the Following

$3(5 + 2)$

Expression

$8(3 + 4)$

Expression

$2(7 + 2)$

Distribute

Distribute

Evaluate

Evaluate

$5(4 - 1)$

Expression

$4(9 - 3)$

Expression

$5(10 - 6)$

Distribute

Distribute

Evaluate

Evaluate

$6(7 + 2 - 5)$

Expression

$8(3 + 4 - 2)$

Expression

$12(1 + 2 + 3)$

Distribute

Distribute

Evaluate

Evaluate

$7(3 - 2 + 7)$

Expression

$5(6 + 9 - 8)$

Expression

$11(7 - 2 - 5)$

Distribute

Distribute

Evaluate

Evaluate

Distribute to Expand the Following

$2(4x - 9)$

Expression

$6(a - 8)$

Expression

$5(3x - 7)$

_____ Distribute

_____ Distribute

$8(4x - 3y)$

Expression

$7(3x + 6y)$

Expression

$5(5x^2 - 2b)$

_____ Distribute

_____ Distribute

$12(x - y + z)$

Expression

$2(a - 2b - 3c + 4)$

Expression

$9(6x - 3b)$

_____ Distribute

_____ Distribute

$3(2x - 9) + 7$

Expression

$6(4x + 3) - 7$

Expression

$12 + 8(x - 1)$

_____ Distribute

_____ Distribute

Combine
Like Terms

Combine
Like Terms

$4(9x + 10) - 10x$

Expression

$6(8y - 3) + y$

Expression

$2(8a + 5b) - 10b$

_____ Distribute

_____ Distribute

Combine
Like Terms

Combine
Like Terms

Distribute to Expand the Following

$16 + 12$

Expression

$27 + 9$

Expression

$45 + 18$

_____ Answer

_____ Answer

$36 - 24$

Expression

$42 - 16$

Expression

$72 - 36$

_____ Answer

_____ Answer

$24 + 18 - 32$

Expression

$18 + 21 + 33$

Expression

$42 - 30 + 24$

_____ Answer

_____ Answer

Distribute to Expand the Following

$18x + 12$

Expression

$8x + 24$

Expression

$24x + 18$

_____ Answer

_____ Answer

$20x + 35y$

Expression

$54a - 18b$

Expression

$28n - 16p$

_____ Answer

_____ Answer

$18m + 27n + 90q$

Expression

$24a - 3b - 9c$

Expression

$20a - 40b + 80c$

_____ Answer

_____ Answer

Distribute and Evaluate the Following

$3(5+2)$	Expression	$8(3+4)$	Expression	$2(7+2)$
$\frac{3(5) + 3(2)}{15 + 6}$	Distribute	$\frac{8(3) + 8(4)}{24 + 32}$	Distribute	$\frac{2(7) + 2(2)}{14 + 4}$
$\frac{21}{21}$	Evaluate	$\frac{56}{56}$	Evaluate	$\frac{18}{18}$

$5(4-1)$	Expression	$4(9-3)$	Expression	$5(10-6)$
$\frac{5(4) - 5(1)}{20 - 5}$	Distribute	$\frac{4(9) - 4(3)}{36 - 12}$	Distribute	$\frac{5(10) - 5(6)}{50 - 30}$
$\frac{15}{15}$	Evaluate	$\frac{24}{24}$	Evaluate	$\frac{20}{20}$

$6(7+2-5)$	Expression	$8(3+4-2)$	Expression	$12(1+2+3)$
$\frac{6(7) + 6(2) - 6(5)}{42 + 12 - 30}$	Distribute	$\frac{8(3) + 8(4) - 8(2)}{24 + 32 - 16}$	Distribute	$\frac{12(1) + 12(2) + 12(3)}{12 + 24 + 36}$
$\frac{24}{24}$	Evaluate	$\frac{40}{40}$	Evaluate	$\frac{72}{72}$

$7(3-2+7)$	Expression	$5(6+9-8)$	Expression	$11(7-2-5)$
$\frac{7(3) - 7(2) + 7(7)}{21 - 14 + 49}$	Distribute	$\frac{5(6) + 5(9) - 5(8)}{30 + 45 - 40}$	Distribute	$\frac{11(7) - 11(2) - 11(5)}{77 - 22 - 55}$
$\frac{56}{56}$	Evaluate	$\frac{35}{35}$	Evaluate	$\frac{0}{0}$

Distribute to Expand the Following

$2(4x-9)$	Expression	$6(a-8)$	Expression	$5(3x-7)$
$2(4x) - 2(9)$		$6 \cdot a - 6 \cdot 8$		$5(3x) - 5(7)$
<u>$8x - 18$</u>	Distribute	<u>$6a - 48$</u>	Distribute	<u>$15x - 35$</u>

$8(4x-3y)$	Expression	$7(3x+6y)$	Expression	$5(5x^2-2b)$
$8(4x) - 8(3y)$		$7(3x) + 7(6y)$		$5(5x^2) - 5(2b)$
<u>$32x - 24y$</u>	Distribute	<u>$21x + 42y$</u>	Distribute	<u>$25x^2 - 10b$</u>

$12(x-y+z)$	Expression	$2(a-2b-3c+4)$	Expression	$9(6x-3b)$
		$2a - 2(2b) - 2(3c) + 2(4)$		$9(6x) - 9(3b)$
<u>$12x - 12y + 12z$</u>	Distribute	<u>$2a - 4b - 6c$</u>	Distribute	<u>$54x - 27b$</u>

$3(2x-9)+7$	Expression	$6(4x+3)-7$	Expression	$12+8(x-1)$
$3(2x) - 3(9) + 7$		$6(4x) + 6(3) - 7$		$12 + 8x + 8(1)$
<u>$6x - 27 + 7$</u>	Distribute	<u>$24x + 18 - 7$</u>	Distribute	<u>$12 + 8x - 8$</u>
<u>$6x - 20$</u>	Combine Like Terms	<u>$24x + 11$</u>	Combine Like Terms	<u>$8x + 4$</u>

$4(9x+10)-10x$	Expression	$6(8y-3)+y$	Expression	$2(8a+5b)-10b$
$4(9x) + 4(10) - 10x$		$48y - 18 + y$		$2(8a) + 2(5b) - 10b$
<u>$36x + 40 - 10x$</u>	Distribute	<u>$48y - 18 + y$</u>	Distribute	<u>$16a + 10b - 10b$</u>
<u>$26x + 40$</u>	Combine Like Terms	<u>$49y - 18$</u>	Combine Like Terms	<u>$16a$</u>

Distribute to Expand the Following

$\begin{array}{r} 2 \overline{) 16 + 12} \\ 2 \overline{) 8 + 6} \\ \hline 4 + 3 \end{array}$	Expression	$\begin{array}{r} 3 \overline{) 27 + 9} \\ 3 \overline{) 9 + 3} \\ \hline 3 + 1 \end{array}$	Expression	$\begin{array}{r} 3 \overline{) 45 + 18} \\ 3 \overline{) 15 + 6} \\ \hline 5 + 2 \end{array}$
4 $4(4+3)$		$3 \cdot 3(3+1)$		$3 \cdot 3(5+2)$
<u>$4(4+3)$</u>	Answer	<u>$9(3+1)$</u>	Answer	<u>$9(5+2)$</u>

$\begin{array}{r} 6 \overline{) 36 - 24} \\ 2 \overline{) 6 - 4} \\ \hline 3 - 2 \end{array}$	Expression	$\begin{array}{r} 2 \overline{) 42 - 16} \\ \hline 21 - 8 \end{array}$	Expression	$\begin{array}{r} 6 \overline{) 72 - 36} \\ 6 \overline{) 12 - 6} \\ \hline 2 - 1 \end{array}$
$6 \cdot 2(3-2)$				$6 \cdot 6(2-1)$
<u>$12(3-2)$</u>	Answer	<u>$2(21-8)$</u>	Answer	<u>$36(2-1)$</u>

$\begin{array}{r} 2 \overline{) 24 + 18 - 32} \\ \hline 12 + 9 - 16 \end{array}$	Expression	$\begin{array}{r} 3 \overline{) 18 + 21 + 33} \\ \hline 6 + 7 + 11 \end{array}$	Expression	$\begin{array}{r} 2 \overline{) 42 - 30 + 24} \\ 3 \overline{) 21 - 15 + 12} \\ \hline 7 - 5 + 4 \end{array}$
				$2 \cdot 3(7-5+4)$
<u>$2(12+9-16)$</u>	Answer	<u>$3(6+7+11)$</u>	Answer	<u>$6(7-5+4)$</u>

Distribute to Expand the Following

$$\begin{array}{r} 2 \overline{) 18x + 12} \\ 3 \overline{) 9x + 6} \\ \hline 3x + 2 \end{array}$$

Expression

$$\begin{array}{r} 8 \overline{) 8x + 24} \\ \hline x + 3 \end{array}$$

Expression

$$\begin{array}{r} 3 \overline{) 24x + 18} \\ 2 \overline{) 8x + 6} \\ \hline 4x + 3 \end{array}$$

$$\underline{6(3x + 2)}$$

Answer

$$\underline{8(x + 3)}$$

Answer

$$\underline{6(4x + 3)}$$

$$\begin{array}{r} 5 \overline{) 20x + 35y} \\ \hline 4x + 7y \end{array}$$

Expression

$$\begin{array}{r} 2 \overline{) 54a - 18b} \\ 3 \overline{) 27a - 9b} \\ 3 \overline{) 9a - 3b} \\ \hline 3a - b \end{array}$$

Expression

$$\begin{array}{r} 2 \overline{) 28n - 16p} \\ 2 \overline{) 14n - 8p} \\ \hline 7n - 4p \end{array}$$

$$\underline{5(4x + 7y)}$$

Answer

$$\underline{18(3a - b)}$$

Answer

$$\underline{4(7n - 4p)}$$

$$\begin{array}{r} 9 \overline{) 18m + 27n + 90q} \\ \hline 2m + 3n + 10q \end{array}$$

Expression

$$\begin{array}{r} 3 \overline{) 24a - 3b - 9c} \\ \hline 8a - b - 3c \end{array}$$

Expression

$$\begin{array}{r} 10 \overline{) 20a - 40b + 80c} \\ 2 \overline{) 2a - 4b + 8c} \\ \hline a - 2b + 4c \end{array}$$

$$\underline{9(2m + 3n + 10q)}$$

Answer

$$\underline{3(8a - b - 3c)}$$

Answer

$$\underline{20(a - 2b + 4c)}$$