

7.EE.1: Worksheet

Solutions

1. Subtract 3.1 from x , multiply it by 5, and then add 15.5. What expression do we have? We'll get $5(x - 3.1) + 15.5$, which is equivalent to $5x$.
2. What do we get when we triple the expression $\frac{5}{6}x + 33$? $\frac{5}{2}x + 99$
3. What's the simplest form of $\frac{1}{3}(45x - \frac{18}{7})$? $15x - \frac{6}{7}$
4. Subtract $4.3x + 7.56$ from $18.2x - 2.44$. $13.9x - 10$
5. A rectangular rug is three times longer than it is wide. What are two different expressions for the rug's perimeter in terms of its width (w)? Answers may vary. Some possible answers are $2(w + 3w)$, $2(4w)$, $2w + 6w$, and $8w$.
6. What simplified expression do we get when we add $4.6a - 3.4$ to itself? $9.2a - 6.8$
7. What is the simplest form of $3(0.44x - 2.1) - 2.1(x - 0.3)$? $-0.78x - 5.67$
8. A picture frame's width is 2 inches less than its length. Write a simplified expression for its perimeter in terms of its length (l). $4l - 4$
9. What simplified expression do we get when we double $3x - 0.5$ and subtract it from $8x + 0.75$? $2x + 1.75$
10. The cost of a giant bar of dark chocolate in dollars was c last week, but now the prices have doubled this week. If Ted wants to buy three bars of dark chocolate this week and he's got a coupon for \$2 off his total purchase, what's an expression that shows his final cost in terms of last week's price per bar? Ted's cost will be $3(2c) - 2$, or $6c - 2$.