Simplifying Linear Expressions

Grade 7 Linear Equation Worksheet

Date:_____   Name:_____

LET'S MAKE SIMPLIFYING LINEAR EXPRESSIONS EASY

Evaluate each expression using the given values

1. $8 + x$ when $x = 21$

2. $y + 20$ when $y = -33$

3. $\frac{-y}{-42}$ when $y = 6$

4. $7x$ when $x = 5$

5. $14b$ when $b = -6$

6. $-z + 25$ when $z = 54$

7. $-19 + 4x$ when $x = 20$

8. $-54 \div y$ when $y = 9$

9. $-16 + (2x + 5)$ when $x = \frac{1}{2}$

10. $\frac{y + (-18)}{25 - y} =$ when $y = -7$

SmartMathz

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Answers

1. $8 + x$
   $= 8 + 21$
   $= 29$

2. $y + 20$
   $= -33 + 20$
   $= -13$

3. $\frac{-y}{-42}$

   $= \frac{-6}{-42}$

   $= \frac{1}{7}$

4. $7(x)$
   $= 7(5)$
   $= 35$

5. $14(b)$
   $= 14(-6)$
   $= -84$

6. $-z + 25$
   $= -(54) + 25$
   $= -29$

7. $-19 + 4x$

$-19 + 4(20)$
$-19 + 80 = 61$

8. $\dfrac{-54}{y}$

   $= \dfrac{-54}{9}$

   $= -6$

9. $-16 + (2x + 5)$

   $= -16 + (2\frac{1}{2} + 5)$

   $= -16 + (7\frac{1}{2})$

   $= -8\frac{1}{2}$

10. $\dfrac{y + (-18)}{25 - y}$

    $= \dfrac{-7 + (-18)}{25 - (-7)}$

    $= \dfrac{-7 - 18}{25 + 7}$

    $= -\dfrac{25}{32}$