

Writing Expressions

Directions: Write a mathematical expression that matches the following word phrase.

- The produce of a number and 24
 $24x$
- The quotient of 36 and a number
 $36 \div x$
- Four less than the product of eight and a number
 $8x - 4$
- The quotient of a number and two decreased by five.
 $x \div 2 - 5$
- Three more than the quotient of a number and six.
 $3 + x \div 6$
- The product of a number and seven increased by six.
 $7x + 6$
- The quotient of a number and eight decreased by three.
 $x \div 8 - 3$
- The product of a number and 4 increased by 8.
 $4x + 8$
- The product of a number and 7 decreased by two and four tenths.
 $7x - 2.4$
- The quotient of 65 and a number decreased by ten and thirty-five hundredths.
 $65 \div x - 10.35$

Writing a Word Phrase

Directions: Write a word phrase that matches the given mathematical expression.

- $x - 4$
the difference between a number and 4
- $4x$
the product of 4 and a number
- $2x - 3$
three less than the product of 2 & a number
- $4/x + 5$
the quotient of 4 and a number, increased by 5
- $2 - x$
the difference between 2 and a number
- $7x - 4$
4 less than the product of 7 and a number
- $n/13$
the quotient of a number and 13
- $6x + 7$
seven more than the product of 6 and a number
- $15/n - 10$
ten less than the quotient of 15 and a number
- $2x + 4.5$
~~two~~ twice a number increased by four and a half

Answer Key

Substitute and solve the following. Show all work!

$$x = -3 \quad y = 5 \quad z = 30$$

1. $x + y$

$$-3 + 5 = \textcircled{2}$$

6. $0.5yz$

$$0.5 \cdot 5 \cdot 30 \\ \textcircled{75}$$

2. $2y - x$

$$2 \cdot 5 - (-3) \\ 10 + 3 = \textcircled{13}$$

7. xyz

$$-3 \cdot 5 \cdot 30 \\ \textcircled{-450}$$

3. $z/x - y$

$$30/(-3) - 5 \\ -10 - 5 \\ \textcircled{-15}$$

8. $2x + 3y - z$

$$2 \cdot (-3) + 3 \cdot 5 - 30 \\ -6 + 15 - 30 \\ \textcircled{-21}$$

4. $4(xy) + 30$

$$4(-3 \cdot 5) + 30 \\ 4(-15) + 30 \\ -60 + 30 \\ \textcircled{-30}$$

9. $3z + xy$

$$3 \cdot 30 + (-3) \cdot 5 \\ 90 + -15 \\ \textcircled{75}$$

5. $6y + x$

$$6 \cdot 5 + (-3) \\ 30 + -3 \\ \textcircled{27}$$

10. $-3.7x + y$

$$-3.7 \cdot (-3) + 5 \\ 11.1 + 5 \\ \textcircled{16.1}$$