

1. SCHOOL SUPPLIES At the school store, a pencil costs \$0.24, 1. and an eraser costs \$0.18. What combination of pencils and erasers could you buy for exactly \$0.66?

2 pencils, 1 eraser $2(.24) + .18 = .66$
 $.48 + .18 = .66$

Evaluate each expression if $x = 4$, $y = 2$, and $z = 5$.

2. $\frac{3x-z}{12-5} = \frac{3(4)-5}{12-5} = 7$

3. $\frac{2(4+y)+xz}{\frac{2}{12} + \frac{4}{20}} = \frac{2(4+2)+4(5)}{\frac{2}{12} + \frac{4}{20}} = 32$

Evaluate each expression.

4. $| -6 | + | 2 | = 6 + 2 = 8$

5. $| 15 - 6 | = 9$

Add.

1. $-10 + 6 = -4$

Same Sign Sum

2. $32 + (-5) = 27$

3. $-17 + (-16) = -33$

4. $-9 + (-11) + 2 = -20 + 2 = -18$

Subtract.

5. $9 - 12 = 9 + -12 = -3$

Subtraction is the same as adding the opposite.

6. $-11 - 2 = -11 + -2 = -13$

7. $15 - (-7) = 15 + (+7) = 22$

8. $-8 - (-4) = -8 + (+4) = -4$

-11 - 2 same things
-11 + -2

Evaluate each expression if $a = -6$, $b = 15$, and $c = -2$.

9. $| b | + a = | 15 | + -6 = 15 + -6 = 9$

10. $a - b - c = -6 - 15 - (-2) = -6 + -15 + 2 = -19$

Part 2

1. $6(-4) = -24$

2. $-5(-7) = 35$

3. $-50 \div 2 = -25$

4. $-27 \div (-3) = 9$

Rules for Mult. + Div.
 Odd # negatives = neg product or quotient
 even # negatives = positive product of quotient

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Evaluate each expression if $x = 7$, $y = -1$, and $z = -3$

5. $\frac{y+z}{2} = \frac{7+(-3)}{2} = \frac{4}{2} = 2$

6. $10 - xy = 10 - 7(-1) = 10 - (-7) = 10 + 7 = 17$

Write each verbal phrase as an algebraic expression.

7. The sum of a number and -5 $x + (-5)$

8. \$3 more than the other CD cost $3 + m$

Write each verbal sentence as an algebraic equation.

9. 9 more than a number is equal to 24. $a + 9 = 24$

10. \$15 less than the amount he spent is \$12.50

$x - 15 = 12.50$

Solve each equation. Check your solution.

1. $x + 9 = 11$

$x + 9 = 11$
 $-9 -9$
 $x = 2$

$x + 9 = 11$
 $2 + 9 = 11?$
 $11 = 11 \checkmark$

2. $m - 6 = 15$

$m - 6 = 15$
 $+6 +6$
 $m = 21$

$m - 6 = 15$
 $21 - 6 = 15?$
 $15 = 15 \checkmark$

3. $\frac{k}{14} = -2$

$\frac{k}{14} = -2$
 $(\frac{k}{14}) = (-2) 14$
 $k = -28$
 $\frac{-28}{14} = -2?$
 $-2 = -2 \checkmark$

4. $-72 = 6w$

$\frac{-72}{6} = \frac{6w}{6}$
 $w = -12$

$-72 = 6(-12)?$
 $-72 = -72 \checkmark$

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4. TICKET SALES Tickets to the school dance cost \$2.50 each. Write and solve a multiplication equation to find how many students must attend in order to make \$300.

$$\frac{2.50 S}{2.50} = \frac{300}{2.50}$$

$S = 120$ students

$$2.50 \overline{) 300.00}$$

120.

$$\begin{array}{r} 120. \\ 2.50 \overline{) 300.00} \\ \underline{250} \\ 500 \\ \underline{500} \\ 00 \\ \underline{00} \\ 0 \end{array}$$