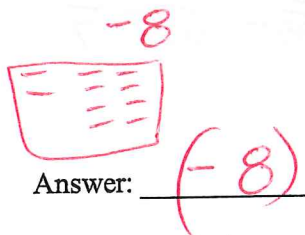


Name: Answers Date: _____ Period: _____

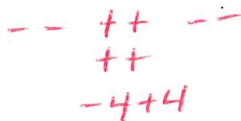
Lesson 3.1.2 Homework Problems 3-19 to 3-23

3-19. Show the numbers of + and - tiles represented by each expression below. **Sketch each model** and state the number that it represents.

a. $(-2) + (-6)$

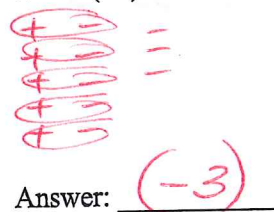


b. $(-2) + 4 + (-2)$



Answer: 0

c. $5 + (-8)$



3-20. Circle each term in the expressions below. Then simplify each expression.

a. $(-8) + 2(-5)$

$-8 + (-10)$
-18

b. $3(7.5 + 2) + 4.6$

$3(9.5) + 4.6$
 $28.5 + 4.6$
33.1

c. $4\frac{1}{2}(-2 + 1 + 7)$

$4.5(-1 + 7)$
 $4.5(6)$
27

d. $5(6 + 2) + 4 + 2(-5 + 8)$

$5(8) + 4 + 2(3)$
 $40 + 4 + 6$
50

3-21. Justin is working with the integer tiles shown in the diagram at right.



a. What is the value of Justin's diagram? 0

b. If Justin removes three positive tiles, what will the value be? -3

c. If Justin starts with the original diagram and removes three negative tiles, what will the value be? 3

d. Justin has a new arrangement of tiles shown below. If he removes four positive tiles, what is the value?



3-22. Linh has a bag of beads that contains 10 glass beads, 7 metal beads, 15 plastic beads, and 3 clay beads. For each part below, if the bead selected is replaced before the next draw, what is the probability that Linh will pull out a...

a. Metal bead?

$$P(\text{metal bead}) = \frac{7}{35} = \frac{1}{5}$$

b. Bead that is not plastic?

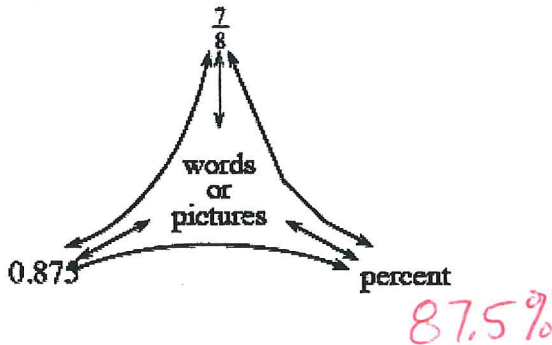
$$P(\text{not plastic}) = \frac{20}{35} = \frac{4}{7}$$

c. Glass or plastic bead?

$$P(\text{glass or plastic}) = \frac{10}{35} + \frac{15}{35} = \frac{25}{35} = \frac{5}{7}$$

3-23. Copy each portions web below and fill in the missing parts.

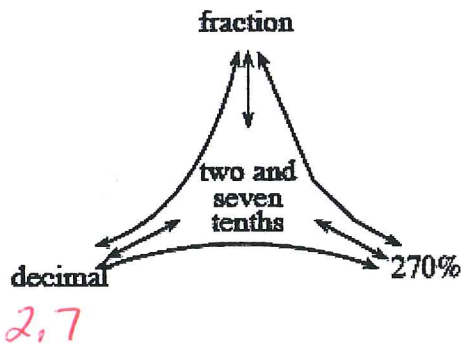
a.



Words or pictures: seven eighths

Percent: 87.5%

b.



Decimal: 2.7 Fraction: 2 $\frac{7}{10}$