$\qquad$
$\qquad$

## Chapter 8 Practice Test

For \#1 to \#4, choose the correct answer.

1. What is the solution to $\frac{1}{3}-\frac{3}{2} x=-\frac{1}{6}$ ?
A $-\frac{1}{9}$
B $\frac{1}{9}$
C $\frac{3}{1}$
D $\frac{1}{3}$
2. What is the solution to $-\frac{5.2}{t}=-3.25$ ?
A 1.6
B -1.6
C 0.625
D -0.625
3. What is the solution to $0.45-0.3 g=0.85+0.2 g$ ?
A 0.8
B -0.8
C 1.25
D -1.25
4. Which equation does not have the solution $y=-2$ ?
A $\frac{y}{4}+1=\frac{1}{2}$
B $\frac{7}{8}-\frac{1}{y}=1 \frac{3}{8}$
C $\quad \frac{2 y-1}{4}=\frac{5 y-4}{8}$
D $\frac{2}{3} y+\frac{3}{2}=-\frac{1}{12} y$

## Complete the statements in \#5 and \#6.

5. To solve a linear equation, isolate the $\qquad$
6. For $2.43=-0.38 v$, the solution rounded to the nearest hundredth is $v=$ $\qquad$
$\qquad$
$\qquad$

## Short Answer

7. Solve and check.

а) $\frac{a+1}{2}=\frac{2 a-1}{5} \Sigma \quad$| Multiples of $2:$ |
| :--- |
| Multiples of $5:$ |

b) $2.8(3 d-2)=-12.32$

## Check:

| Left Side | Right Side |
| :--- | :--- |
|  |  |
|  |  |

Check:

| Left Side | Right Side |
| :--- | :--- |
|  |  |
|  |  |

8. Nav pays a monthly fee of $\$ 5.95$ for her bank account.

She also pays $\$ 0.75$ for each deposit or withdrawal.
One month, the total fee for her account was $\$ 12.70$.
How many deposits or withdrawals did she make that month?
Let $x=$ the number of deposits or withdrawals Nav made.

The number of deposits or withdrawals Nav made that month was $\qquad$
$\qquad$
$\qquad$
9. Precipitation is moisture that falls as rain or snow.

There is a relationship between the depth of rain, $r$, and the depth of snow, $s$.
Equal quantities of precipitation result in the relationship $\frac{r}{s}=0.1$.
a) 15.5 cm of snow falls in a storm. If it was a warm day, how much rain would that represent?

$$
\frac{r}{s}=0.1
$$

Sentence: $\qquad$
b) 2.7 cm of rain falls. If it was a cold day, how much snow would that represent?
$\frac{r}{s}=0.1$

Sentence: $\qquad$
10. The square and the regular pentagon have equal perimeters.
a) What is the value of $d$ ?

$$
\text { Perimeter of square }=\text { perimeter of pentagon }
$$


$\qquad$

The value of $d$ is $\qquad$
b) What is the perimeter of each shape?

Square:
Pentagon:

