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## Chapter 10 Assignment 1

1. Write the equation the model represents: (4 marks)
a)

b)

c)

d)

2. Model the following equations: (2 marks)
a) $\frac{x}{3}=-5$
b) $3-2 x=4$
3. Show that $m=-6$ is or is not the solution: (4 marks)
a) $\frac{m}{-3}=2$
b) $10-4 m=-12$
$\qquad$ 8: $\qquad$
4. Solve and verify for full marks:
a) Solve:

## Verify:

$-48=-4 s$
b) Solve:

## Verify:

$$
16=\frac{x}{-3}
$$

## Verify:

$4 h+3=19$
d) Solve:

## Verify:

$184=-8 j+88$
5. The Me-to-We club earned $\$ 624$ at a recent fundraiser. They donated $\$ 114$ to the local shelter. They took the remaining amount and donated it equally amongst three other charities. How much did each charity receive?
6. Zoey has a collection of CDs and DVDs. The number of CDs she has is three fewer than four times the number of DVDs. Zoe has 25 CDs. How many DVDs does Zoey have?
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# 10 <br> <br> Solve Problems Using <br> <br> Solve Problems Using Logical Reasoning 

 Logical Reasoning}

## GOAL

## Solve problems that involve equations using logical reasoning.

## Use logical reasoning to solve the following problems.

1. Sally's father is 45 . He is 15 years older than twice Sally's age. How old is Sally?
2. Kathy is twice as old as Lisa. Three years from now, the sum of their ages will be 42 . How old is Kathy?
