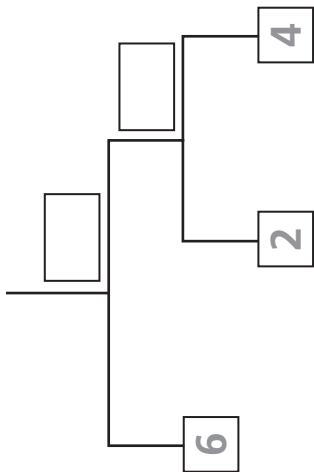


Balanced and Unbalanced Mobiles

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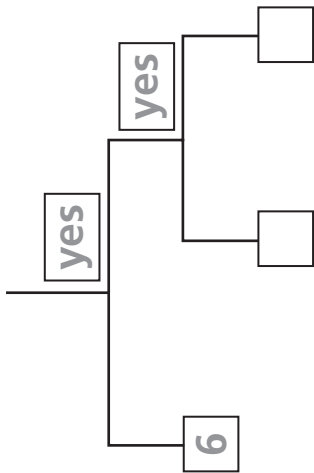
A

Total Weight: 12



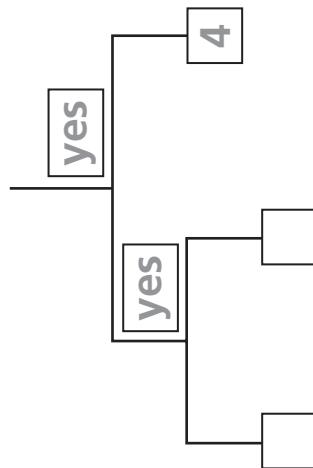
B

Total Weight: 12



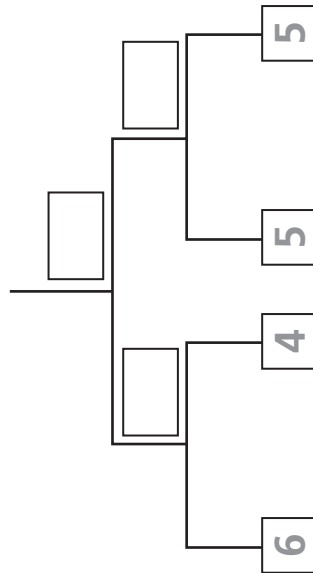
C

Total Weight: _____



D

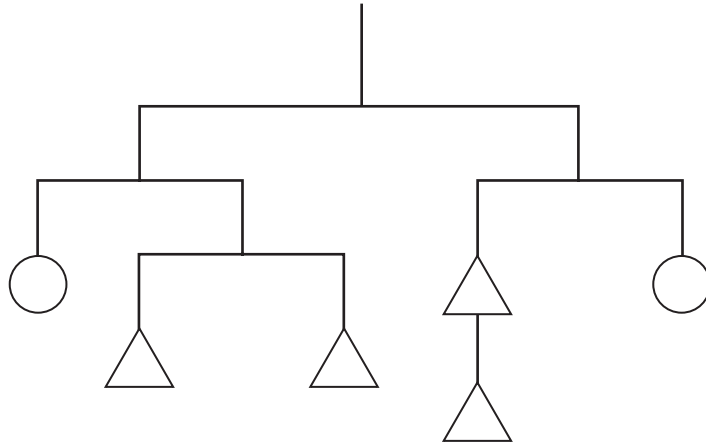
Total Weight: _____



More Mobiles

A

Total Weight: 24

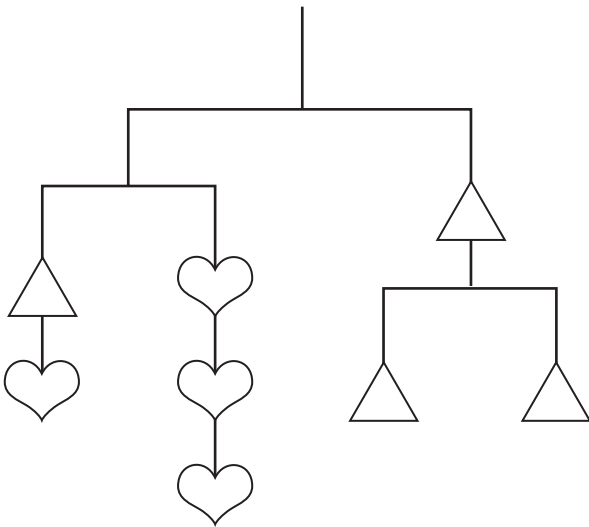


$\triangle = \underline{\quad}$

$\circ = \underline{\quad}$

B

Total Weight: 48

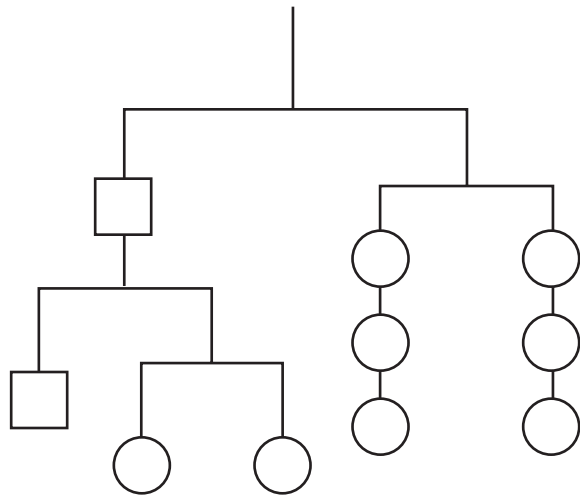


$\triangle = \underline{\quad}$

$\heartsuit = \underline{\quad}$

C

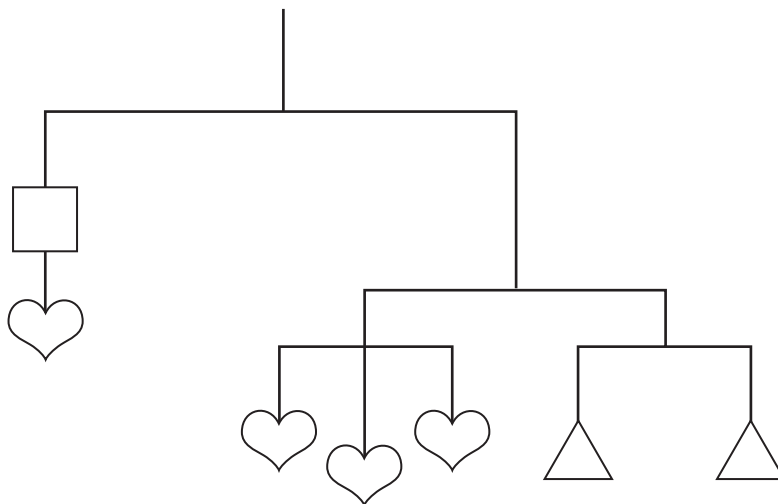
Total Weight: 36



$\square = \underline{\quad}$

$\circ = \underline{\quad}$

Which Equations Describe This Mobile?



In these equations,

$s = \text{square}$

$h = \text{heart}$

$t = \text{triangle}$

1 _____ = _____

2 _____ = _____

3 Do these equations agree with the mobile? Write *yes* or *no*.

$3t = 2h$ _____

$s + h = 6h$ _____

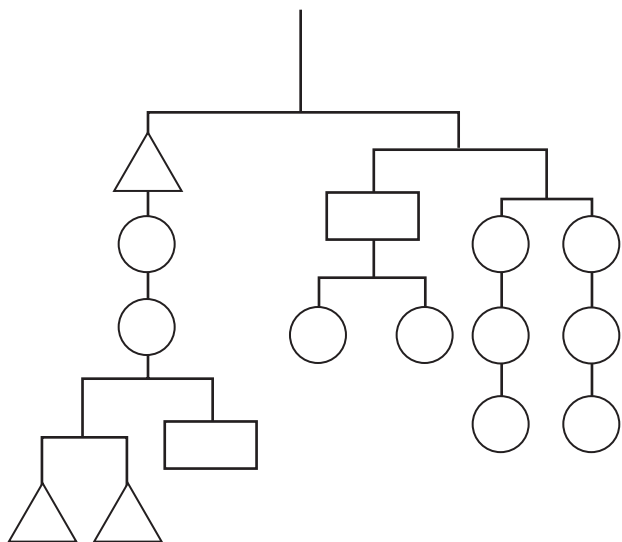
$h = 2t$ _____

$s = 5h$ _____

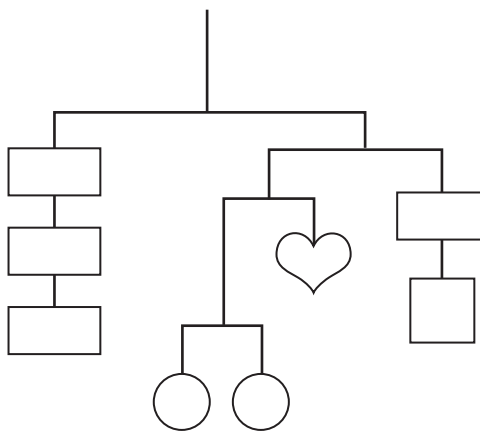
Mobiles and Equations






Write three equations that agree with each mobile.

A Total Weight: 48



B Total Weight: 48





	weight = t		weight = r		weight = s
	weight = c		weight = h		


A

_____ = _____

_____ = _____

_____ = _____

 = _____  = _____

 = _____

B

_____ = _____

_____ = _____

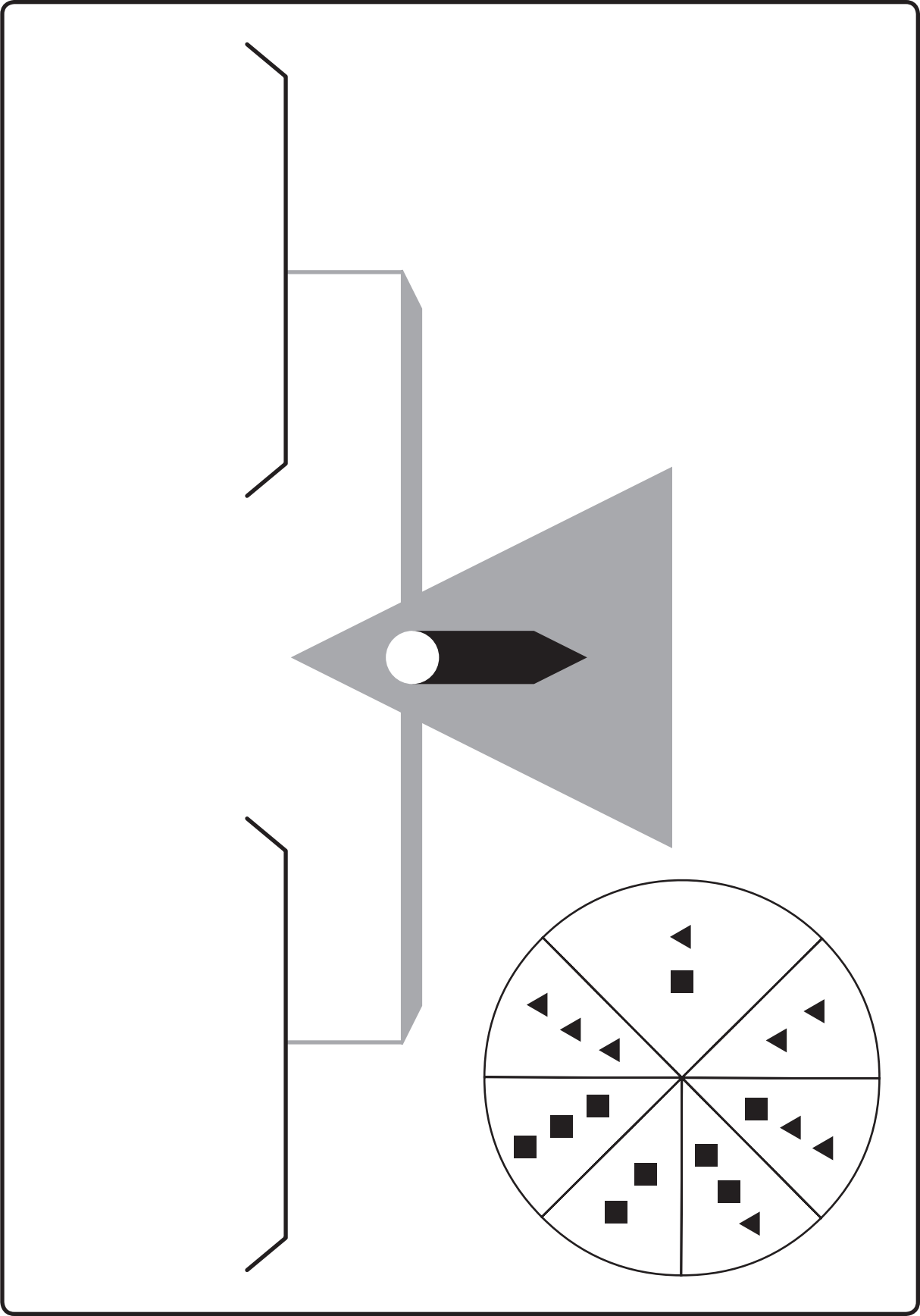
_____ = _____

 = _____  = _____

 = _____  = _____
















The Balance Puzzle Scale and Spinner
















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The Balance Puzzle Game Pieces



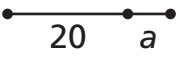
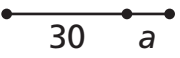
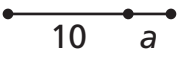
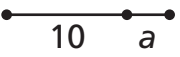
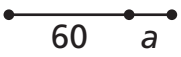
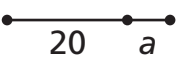
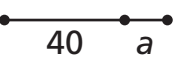
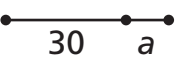

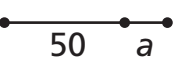
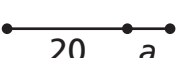
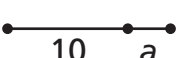
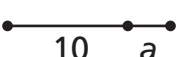
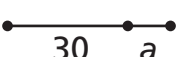
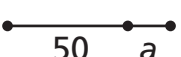
				
				
				

Number Trick Steps

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Words	Diagram	Shorthand	Number
Think of a number.			
Add 3.			
Multiply by 6.			
Subtract 10.			
Divide by 2.			
Subtract 4.			
Divide by 3.			

Picture Puzzler Game Board

	$2 \begin{array}{ c } \hline \square \\ \hline a \end{array}$		$a \begin{array}{ c } \hline \square \\ \hline 4 \end{array}$	$a \begin{array}{ c } \hline \square \\ \hline 3 \end{array}$	
$a \begin{array}{ c } \hline \square \\ \hline 2 \end{array}$	$5 \begin{array}{ c } \hline \square \\ \hline a \end{array}$		$a \begin{array}{ c } \hline \square \\ \hline 3 \end{array}$	$2 \begin{array}{ c } \hline \square \\ \hline a \end{array}$	
$a \begin{array}{ c } \hline \square \\ \hline 3 \end{array}$		$a \begin{array}{ c } \hline \square \\ \hline 2 \end{array}$			$a \begin{array}{ c } \hline \square \\ \hline 2 \end{array}$
	$a \begin{array}{ c } \hline \square \\ \hline 2 \end{array}$	$a \begin{array}{ c } \hline \square \\ \hline 3 \end{array}$		$a \begin{array}{ c } \hline \square \\ \hline 2 \end{array}$	$a \begin{array}{ c } \hline \square \\ \hline 5 \end{array}$
$5 \begin{array}{ c } \hline \square \\ \hline a \end{array}$		$3 \begin{array}{ c } \hline \square \\ \hline a \end{array}$	$a \begin{array}{ c } \hline \square \\ \hline 2 \end{array}$		$3 \begin{array}{ c } \hline \square \\ \hline a \end{array}$
	$a \begin{array}{ c } \hline \square \\ \hline 2 \end{array}$		$a \begin{array}{ c } \hline \square \\ \hline 4 \end{array}$		$a \begin{array}{ c } \hline \square \\ \hline 2 \end{array}$

The Game Show Puzzle

On the Mathematical Marvels game show, contestants score 3 points for each question they answer correctly, but lose 1 point for each question they get wrong.

One contestant, Vincent, had 44 points after answering 20 questions. How many questions did he get right?

	Vincent
Score	44
Correct	<input type="text"/>
Incorrect	<input type="text"/>
Total Questions	20