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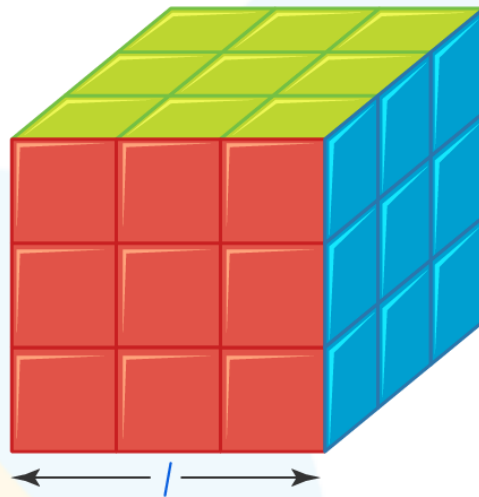
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Solving for a Variable Worksheet-2

- 1) Find the value of the expression $3a + 7$ for $a = 5$.
- 2) The length of an edge of a Rubik's cube is denoted by 'l'.
 - a) Write the formula to find the total length of the edges of Rubik's cube using an expression.
 - b) Find the value of 'l' if the total length of all the sides of the cube is given as 108 units.



- 3) Match column 1 with the correct value of the variable expressions in column 2.

a) $5-x$ at $x = 6$	i) 14
b) $-7x$ at $x = -2$	ii) -5
c) $\frac{5x}{7}$ at $x = -7$	iii) -1

- 4) Can we help Cersie solve the following riddle?

"If you subtract $\frac{1}{2}$ from me and multiply the result by $\frac{1}{2}$, the result is $\frac{1}{8}$. Who am I?"



5) Solve the equation: $5x - 21 = 4$

6) 10 years ago, the age of William's mother was 5 times the age of William. If his mother is 30 years old now, how old is William now?

7) If a school's football team has lost one-third of the matches in a tournament, Find out the number of matches won by the team, if the total matches played so far is 492.



8) Your friend eats 7 apples less than 4 times the amount of apples you do. If you eat 3 apples, find out how much your friend eats?

You

Friend



3

9) The value of x that satisfies $-2(3x-2) = -5x+7$ is

$x = \underline{\hspace{2cm}}$.

10) If $x+6=2x-6$ and $3y-7=11$, then find the value of $x-y$.



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- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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ANSWERS

1)	22
2)	a) 12l b) l=9 units
3)	a) - iii), b) - i), c) - ii)
4)	$\frac{3}{4}$
5)	X=5
6)	6 years
7)	328 matches
8)	5 apples
9)	X=-3
10)	x=12, y=6 So, x-y=6

FUN FACT

1. The opposite of a variable is a constant or a known value.
2. There are four parts of any equation-Coefficients, variables, terms and constants.
3. Any alphabet or symbol can be used to represent a variable.

