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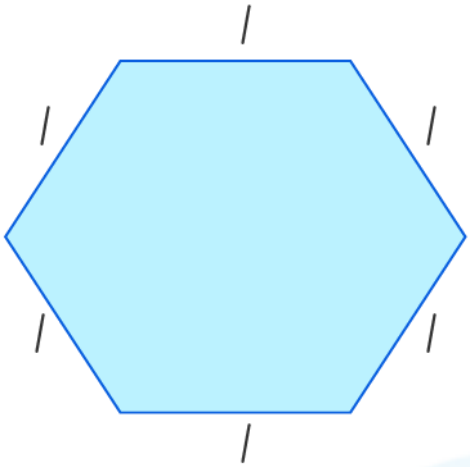
Solving for a Variable Worksheet-1

1) Let 'x' be the length of a square. Which of the following expressions represents the perimeter of the square?
   a) $4+x$
   b) x^2
   c) $4x$

2) Jimmy and Jolly are sisters. When Jimmy was y years old, Jolly was (y-2) years old. If Jolly's age is 12 years at present, then what is Jimmy's age?

3) Determine the value of the expression $8 \times (x + 3)$ when $x = 3$.

4) The following picture shows a regular hexagon with side length 'l'.
   a) Express the perimeter of the hexagon using the variable 'l'.
   b) Find the value of 'l' if perimeter is given as 72 units.



5) Take Julia's present age as 'x' years. Find the value of x if Julia's age 7 years from now would be 28 years.

6) What would be the value of the following variable expressions for x = -2?
   a) 5x + 1
   b) -5(x-7)

7) 409 students went on a field trip. 8 buses were filled (with an equal number of students) and 9 students went by a car. Then how many students were there in each bus?

8) Which of the following values of m satisfies the equation 3m – 2 = 2(m-7)?

a) m=14

b) m=-5/12

c) m=-12

d) m=5/12

9) Number of children in the school's red house society is 400. Find the number of children in the yellow house if it is 2 less than twice the number of students in the red house.

10) Find the value of p.

$$121 + 8 - p \div 2 = 127$$

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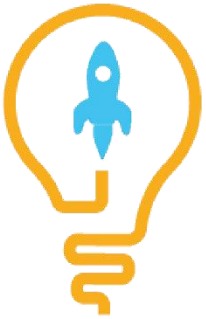

ANSWERS

1)	c) 4x
2)	14 years
3)	48
4)	a) 61 b) 12 units
5)	21 years
6)	a) -9, b) 45
7)	50 students
8)	c) m=-12
9)	798 children
10)	p=4

FUN FACT

1. Equations may contain one or more variables.

2. To solve an equation with a single variable, we just apply the opposite operations on both sides of the given equation to isolate the variable.

3. Any alphabet or symbol can be used to represent a variable.