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Solving for a Variable Worksheet-4

1) Solve for x:

$$4x - 8 = 3x + 7$$

2) If $2x+11=3x-5$ and $4y-9=19$, then find the value of $x+y$.

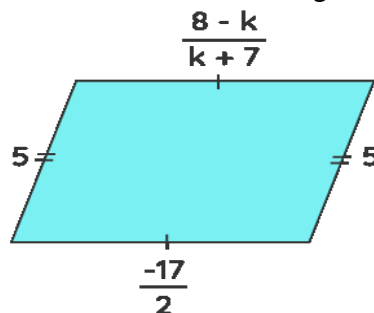
3) Harry is 36 years younger than his father. Four years ago, Harry's father was 4 times older than his son. Then what are their current ages?



4) Solve the equation for j.

$$\frac{4}{7} = \frac{2}{7} (j + \frac{7}{8})$$

5) Find the value of k based on the given parallelogram.



6) Two numbers are in the ratio 2:5. Their sum is 49.
Find the numbers.

7) Solve for m:

$$m \times 4 + 9 - 2 = 27$$

- a) $m = 4$
- b) $m = 5$
- c) $m = 3$
- d) $m = 6$

8) A school library has 450 math books. If English literature books are 5 less than twice the number of math books, find out the number of English literature books in the library?



9) Eva's age is 7 years. If her mother is 13 more than thrice of her age, find out the age of her mother?



10) When 11 is added to the product of 6 and a certain number, the result is 65. What is the value of the number?

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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."

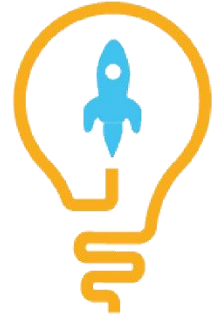
- Kirk Riley

"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."

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**ANSWERS**

1)	$X=15$
2)	$x=16, y=7$ $X+y=23$
3)	16 years and 52 years
4)	$j = \frac{9}{8}$
5)	$K=-9$
6)	14 and 35
7)	b) $m = 5$
8)	895
9)	34 years
10)	9

FUN FACT

1. In mathematics, a variable implies an unknown value.
2. The opposite of a variable is a constant or a known value.
3. There are four parts of any equation-Coefficients, variables, terms and constants.

