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ALGEBRA EQUATIONS WORKSHEETS

- 1) What value of z satisfies the equation $-8z - 7 = -55$?
- 2) 289 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?

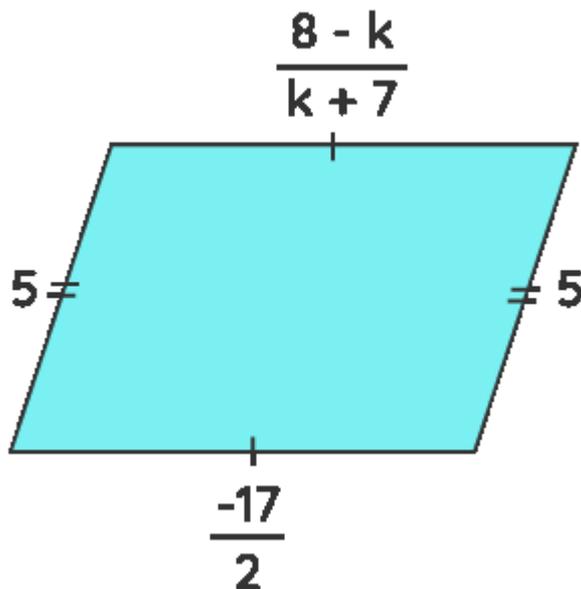


- 3) If $2x = \frac{3}{4} - x$, and $-10 = -\frac{1}{5}\left(y + \frac{5}{6}\right)$, then find the value of xy .

- 4) Mia's father is 70 years old. He is 10 years older than 2 times Mia's age. Then how old is Mia?



5) Find k using the following parallelogram:



6) Is $(3, -2)$ a solution of the following system?

$$3x - y = 9$$

$$x - 5y = 13$$

7) Determine whether the given ordered pair is a solution of the given system of equations:

$$(-2, 3); \quad 4x + 3y = 1$$

$$3x + 4y = 6$$

8) Solve the following system of equations using the elimination method.

$$2x + 3y - 11 = 0$$

$$3x + 2y - 9 = 0$$

9) An amusement park charges adults and children differently. The cost of 5 adult tickets and 3 children tickets is \$129 and the cost of 3 adult tickets and 5 children tickets is \$119. Then what is the cost of each adult's ticket and each children's ticket?



- 10) An exam worth 150 marks has 16 questions. Some of them are worth 8 marks each and others are worth 10 marks each. Then how many 8 marks questions and 10 marks questions are there in the exam?

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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)	$z = 6$
2)	35 students
3)	$xy = \frac{295}{24}$
4)	30 years
5)	$k = -9$
6)	Not a solution
7)	The given ordered pair is a solution of the given system.
8)	$(x, y) = (1, 3)$
9)	The cost of each adult's ticket = \$18 and The cost of each children's ticket = \$13.
10)	The number of 8 marks questions = 5 The number of 10 marks questions = 11.

FUN FACT

1. 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.
2. To solve a system of equations with n unknowns, we should have n equations.
For example, to solve for two variables x and y , we should have two equations in x and y .
3. To solve a system of two equations in two variables, we can use the methods like elimination method, substitution method, etc.

