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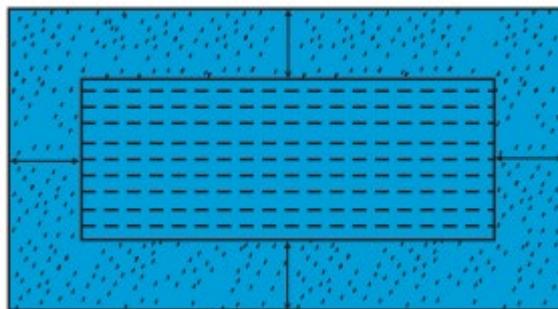
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## Algebra Word Problems Worksheets

- 1) There are 12 packets of chips in a big pack. I buy  $n$  big packs of crisps. How many packets of chips have I bought?
- 2) There are  $t$  pens in a pack. I buy 4 packs. How many pens did I buy?
- 3) I have 6 sketch pens. A friend gives me  $n$  more. How many do I have now?
- 4) Amy is 6 years older than Jonny. Six years ago she was twice as old as he. How old is each now?
- 5) Michael has some coins in his pocket consisting of dimes, nickels, and pennies. He has two more nickels than dimes, and three times as many pennies as nickels. How many of each kind of coins does he have if the total value is 52 cents?
- 6) Think of a number. Double the number. Subtract 6 from the result and divide the answer by 2. The quotient will be 20. What is the number?
- 7) Evelyn is thinking of constructing a rectangular shaped swimming pool in the plot next to her house such that it is surrounded by grass as given in the figure below. The dimensions of the plot is  $50\text{ ft} \times 40\text{ ft}$ , and the area of the grass is  $1184\text{ ft}^2$ . Find the dimensions of the pool.



- 8) Natalie gets pocket money from her mother and is planning to buy a dress for her annual day celebrations in school. Had she got \$10 more pocket money from her mom, the amount would have been 9 times the square of the money she has now. How much money does she have now?
- 9) The length of the rectangle is  $l$  units more than its width. The width of the rectangle is 11 units and the length of the wire that is used to make this rectangle is a maximum of 57 units. Represent this situation using an inequality.
- 10) Jonathan has collected \$100 in his piggy bank. He spent \$ $x$  on food, \$47 to rent a bike and the remaining \$ $v$  to rent a video game. Represent this situation using inequality.



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in an interesting way,  
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## Why choose Cuemath?

"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- 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)	$12n$
2)	$4t$
3)	$n+6$
4)	Jonny-12 Amy-18
5)	52 cents
6)	23
7)	-8, 4
8)	$-23/16$
9)	$2l + 44 \leq 57$
10)	$x + 47 + v \leq 100$

## FUN FACT

- The general form of a quadratic equation is given as,
- $a$ ,  $b$  and  $c$  are real numbers, where  $a \neq 0$  and  $b$  and  $c$  can have any value but  $a$  cannot be zero.
- The degree of a quadratic polynomial is always 2.

