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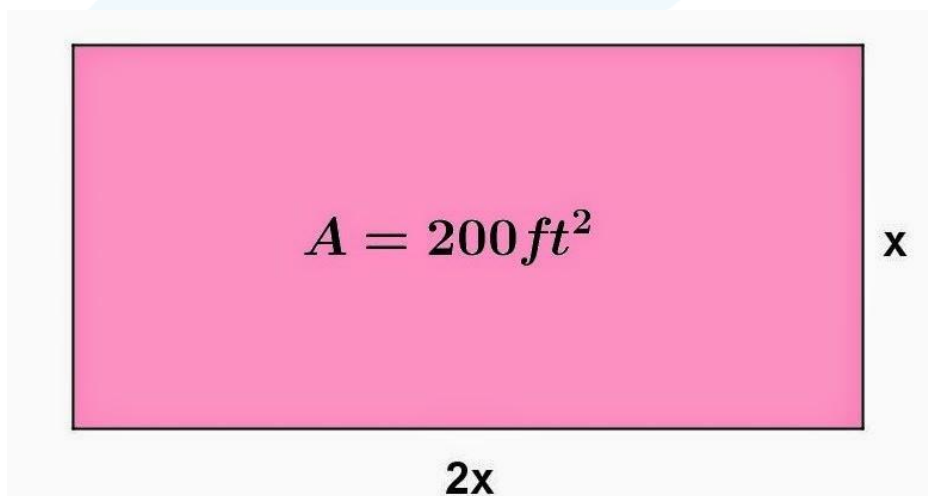
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## Factoring Polynomials Worksheet

### Questions

Factorize the equations for questions 1-6:

1.  $7x + 14$
2.  $x^2 - 18x + 81$
3.  $25x^2 - 30x + 9$
4.  $49x^2 - 9$
5.  $8xy + 2x - 12y - 3$
6.  $x^3 - 216 - 18x(x - 6)$
7. Fill in the missing values in the following factorization:  
$$7x^2z + 28x^3y = 7\_ (z + \_xy)$$
8. If the area of a rectangular plot is denoted by  $5x^2 - 7x + 2$ , find the length and breadth of the plot if  $x = 4$ .



9. The distance covered by a biker is denoted by  $6x^2 - 13x - 15$  and the time  $t$  denoted by  $x - 3$ . Find the speed at  $x = 9$ .
10. Find the value of  $m$  if  $mx^2 + 2x - 20$  has  $-2$  as one of its roots.

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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.	$7(x+2)$
2.	$(x - 9)^2$
3.	$(5x - 3)^2$
4.	$(7x + 3)(7x - 3)$
5.	$(4y + 1)(2x - 3)$
6.	$(x - 6)^3$
7.	$x^2$ and $4x$
8.	18 and 3
9.	59
10.	6