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## Factoring Worksheet

From 1-4, factor the numbers as the product of prime numbers.

1)  $91 = \underline{\hspace{2cm}}$

2)  $200 = \underline{\hspace{2cm}}$

3)  $289 = \underline{\hspace{2cm}}$

4)  $920 = \underline{\hspace{2cm}}$

From 5-6, factor out the GCF.

5)  $5h - 25$

6)  $1.4x - 7$

From 7-8, factor out the coefficient of the variable term.

7)  $-\frac{1}{2}x + 8$

8)  $-\frac{1}{8}x - \frac{3}{2}y$

9) The volume of a gift box is  $6x^3 + 4xy$  cubic units. What can be its dimensions?

**Hint:** Factorize the expression by factoring out the GCF.



- 10) The area of a rectangular farm is  $(2x - 24y)$  square units. Then what are its possible dimensions?



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## Why choose Cuemath?

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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."

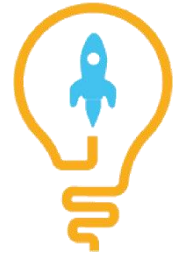
- Kirk Riley

"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)	$2 \times 13$
2)	$2 \times 2 \times 2 \times 5 \times 5$
3)	$17 \times 17$
4)	$2 \times 2 \times 2 \times 5 \times 23$
5)	$5(h - 5)$
6)	$1.4(x - 5)$
7)	$-\frac{1}{2}(x - 16)$
8)	$-\frac{1}{8}(x + 12)$
9)	2 units; $x$ units; $(3x^2 + 2y)$ units
10)	2 units; $(x - 12y)$ units

## FUN FACT

- 1) Factoring of a number is writing it as the product of two or more numbers.
- 2) Factoring an expression is based on the distributive property of multiplication over addition.
- 3) To get an idea of what to factor out of an expression, think which term can divide all terms of the expression.

