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Factoring Worksheet

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

1) $35 = \underline{\hspace{2cm}}$

2) $42 = \underline{\hspace{2cm}}$

3) $102 = \underline{\hspace{2cm}}$

4) $225 = \underline{\hspace{2cm}}$

From 5-6, factor out the GCF.

5) $16x - 20y$

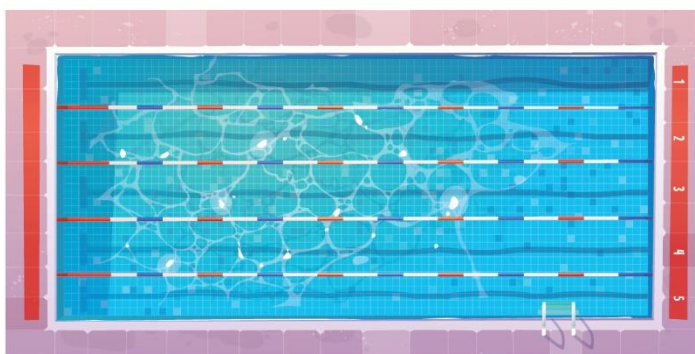
6) $14 + 21m - 7n$

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

7) $\frac{5}{8}k + \frac{5}{4}$

8) $\frac{7}{2}m + 14$

- 9) The area of a rectangular shaped swimming pool is $3x - 9$ square units. Find the possible dimensions of the rectangle as algebraic expressions.



- 10) A square shaped door mat has a perimeter of $8x - 12$ units. Find an expression for the length of the mat.



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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."

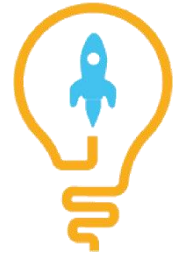
- Kirk Riley

"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)	5×7
2)	$2 \times 3 \times 7$
3)	$2 \times 3 \times 17$
4)	$3 \times 3 \times 5 \times 5$
5)	$4(4x - 5y)$
6)	$7(2 + 3m - n)$
7)	$\frac{5}{8}(k + 2)$
8)	$\frac{7}{2}(m + 4)$
9)	3 units and $(x - 3)$ units
10)	$(2x - 3)$ units

FUN FACT

1. Factoring a number or expression is writing it as the product of two or more numbers or expressions.
2. The distributive property is $a(b + c) = ab + ac$.
3. The distributive property is helpful in factoring the expressions.

