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Factoring Worksheet

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

1) $210 = \underline{\hspace{2cm}}$

2) $400 = \underline{\hspace{2cm}}$

3) $676 = \underline{\hspace{2cm}}$

4) $850 = \underline{\hspace{2cm}}$

From 5-6, factor out the GCF.

5) $4x^2 - 2x$

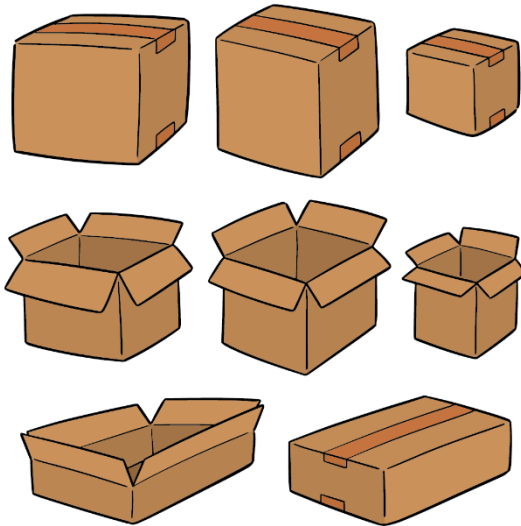
6) $4p^2q + p^2q + 2pq^2$

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

7) $\frac{17}{4} + \frac{5}{8}x$

8) $0.8k + 3.2$

9) Benjamin had some boxes of apples, each with 8 apples. If he gave away 10 apples to his friend then write an algebraic expression for the number of apples he currently have with him and factor out the GCF. Assume the number of boxes to be x .



- 10) The area of a rectangular park is $(28m - 35p)$ square units. Then what are its possible dimensions?



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"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)	$2 \times 3 \times 5 \times 7$
2)	$2 \times 2 \times 2 \times 2 \times 5 \times 5$
3)	$2 \times 2 \times 13 \times 13$
4)	$2 \times 5 \times 5 \times 17$
5)	$2x(2x - 1)$
6)	$pq(5p + 2q)$
7)	$\frac{5}{8} \left(\frac{34}{5} + x \right)$
8)	$0.8(k + 4)$
9)	$2(4x - 5)$
10)	7 units; $(4m - 5p)$ units

FUN FACT

- 1) While factoring a number, use prime factorization tree.
- 2) While factoring an expression, take a number or an expression as a common factor out that divides each of the terms.
- 3) When we factor out a term, we divide each of the terms of the original expression by the term that is factored out to get the terms that would come inside the brackets.

