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## Factoring Worksheet

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

1)  $98 = \underline{\hspace{2cm}}$

2)  $1000 = \underline{\hspace{2cm}}$

3)  $750 = \underline{\hspace{2cm}}$

4)  $255 = \underline{\hspace{2cm}}$

From 5-6, factor out the GCF.

5)  $25m - 15$

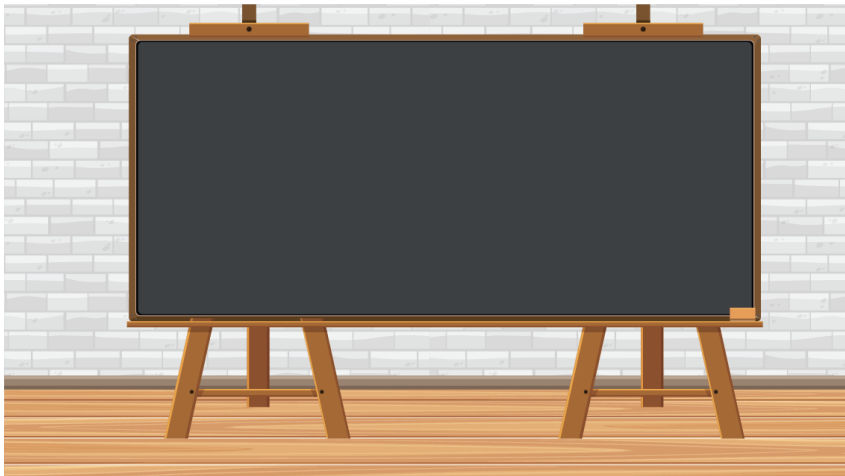
6)  $6x^2y - 3xy - 12x$

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

7)  $0.13h - 1.17$

8)  $\frac{13}{9} + \frac{4}{3}x$

- 9) The area of a blackboard is  $3x^2 + 2x$  square units. Write its dimensions as algebraic expressions.



- 10) The length and width of a rectangular park are  $x$  units and  $y$  units respectively. We know that its perimeter is given by  $2(x + y)$  units. Which of the following is equivalent to the perimeter of the park?



- a)  $2(x + y)$
- b)  $4xy$
- c)  $2xy$

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- 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)	$2 \times 7 \times 7$
2)	$2 \times 2 \times 2 \times 5 \times 5 \times 5$
3)	$2 \times 3 \times 5 \times 5 \times 5$
4)	$3 \times 5 \times 17$
5)	$5(5m - 3)$
6)	$3x(2xy - y - 4)$
7)	$0.13(h - 9)$
8)	$\frac{4}{3} \left( \frac{13}{12} + x \right)$
9)	$x$ units and $(3x + 2)$ units
10)	Option a)

## FUN FACT

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

