

Name _____
Alg1

October 9, 2018
GCF Word Problems

1.) The area of a rectangle is represented by the polynomial $36x^2 + 63x$. The width of the rectangle is given by the binomial $4x + 7$.

(a) Given a monomial expression in terms of x for the length of the rectangle. Show how you arrived at your answer.

(b) If the length of the rectangle is 99, what is the width of the rectangle? Explain your thinking.

2.) The area of a rectangle is represented by the polynomial $60x^2 + 108x$. The width of the rectangle is given by the binomial $5x + 9$.

(a) Given a monomial expression in terms of x for the length of the rectangle. Show how you arrived at your answer.

(b) If the length of the rectangle is 156, what is the width of the rectangle? Explain your thinking.

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3.) The area of a rectangle is represented by the polynomial $56x^2 + 88x$. The width of the rectangle is given by the binomial $7x + 11$.

(a) Given a monomial expression in terms of x for the length of the rectangle. Show how you arrived at your answer.

(b) If the length of the rectangle is 96, what is the perimeter of the rectangle? Explain your thinking.

4.) The area of a rectangle is represented by the polynomial $81x^2 + 45x$. The width of the rectangle is given by the binomial $9x + 5$.

(a) Given a monomial expression in terms of x for the length of the rectangle. Show how you arrived at your answer.

(b) If the length of the rectangle is 117, what is the area of the rectangle? Explain your thinking.