

Polynomials and Geometry

1. x $\begin{array}{|c|} \hline 3x+5 \\ \hline \end{array}$ What is the perimeter of the rectangle?

2. x $\begin{array}{|c|} \hline 3x+y \\ \hline \end{array}$ $\begin{array}{|c|} \hline 5x+8y \\ \hline \end{array}$ What is the perimeter of the triangle?

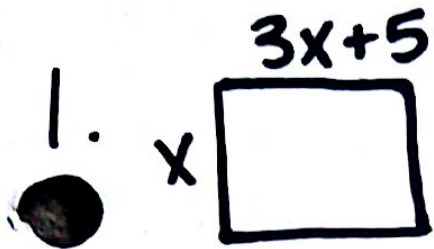
3. $\begin{array}{|c|} \hline 4a+m \\ \hline \end{array}$? $\begin{array}{|c|} \hline 10a+m \\ \hline \end{array}$ What polynomial represents the missing piece?

4. $6x$ $\begin{array}{|c|} \hline \\ \hline \end{array}$ $5x^2-1$ Write the area of the rectangle as a polynomial.

Area is always represented in squared units

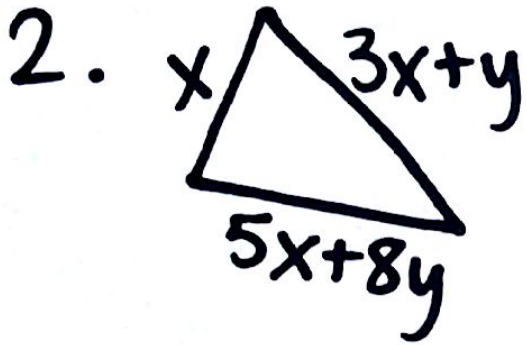
5. 8 $\begin{array}{|c|} \hline \\ \hline \end{array}$ $3x+6$ If the area of the rectangle is 96 in^2 , then what is the value of x ?

Polynomials + Geometry
ANSWERS



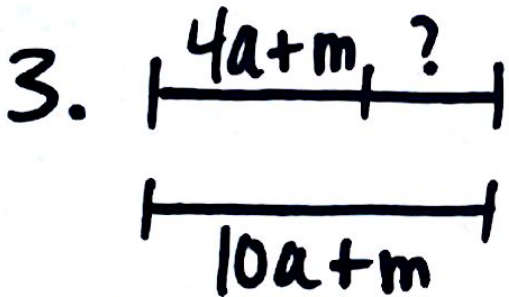
$$x + 3x + 5 + x + 3x + 5$$

$$\boxed{8x + 10}$$



$$x + 5x + 8y + 3x + y$$

$$\boxed{9x + 9y}$$



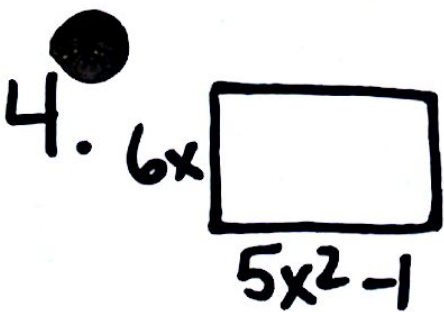
$$10a + m = 4a + m + ?$$

$$-4a \quad -4a$$

$$6a + m = m + ?$$

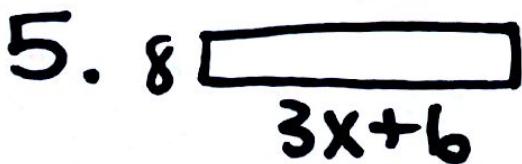
$$-m \quad -m$$

$$\boxed{6a = ?}$$



$$6x(5x^2 - 1)$$

$$\boxed{30x^3 - 6x}$$



$$A = 96$$

$$8(3x + 6) = 96$$

$$24x + 48 = 96$$

$$-48 \quad -48$$

$$24x = 48$$

$$\boxed{x = 2}$$