

$$4f + 5 - 7 + 2m + 13 + 9m - 2f + 4 + 3f^2 + m^2$$

Terms - the parts of an expression that are added together (change to addition 1st)

$$\boxed{4f} + \boxed{5} + \boxed{-7} + \boxed{2m} + \boxed{13} + \boxed{9m} + \boxed{-2f} + \boxed{4} + \boxed{3f^2} + \boxed{m^2}$$

The boxed items are the terms.

Coefficient - the number part of a variable term

$$\underline{4}f \quad \underline{2}m \quad \underline{9}m \quad \underline{-2}f \quad \underline{3}f^2 \quad \overset{\text{Understood}}{\underline{1}}m^2$$

The underlined items are the coefficients.

Constant terms - the terms with no variable (just numbers)

$$\textcircled{5} \quad \textcircled{-7} \quad \textcircled{13} \quad \textcircled{4}$$

The circled items are the constants.

Like terms - terms that have the same variable part to the same power.

Like terms can be combined.

$$\boxed{3f^2} \quad \boxed{m^2} \quad \boxed{2m + 9m} \quad \boxed{4f + -2f} \quad \boxed{5 + -7 + 13 + 4}$$

Each boxed group is a set of like terms.

This expression can be simplified to...

$$3f^2 + m^2 + 2f + 11m + 15$$