# Linear Expressions

## Question 1

Is the expression Linear or Nonlinear?
Click on each expression and choose from the drop down list

$5m - 3m + 4$ $2x^3 + 4x$ $2x + 1$ $7pq$

## Question 2

Add the Linear Expressions
Type your answer in the box. **Don't type any spaces between your terms** in your answer

$$\begin{array}{r} 3x + 5 \\ 5x + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 6x - 1 \\ -2x + 4 \\ \hline \end{array}$$

## Question 3

Subtract the Linear Expressions
Choose the correct steps from the dropdown list

$$(7x - 3) - (2x + 3)$$

**Step 1:** Arrange like terms in COLUMNS (vertically)
**Step 2:** Add the additive inverse
**Step 3:** Add the columns to find the final answer

# Linear Expressions

## Question 4

Find the GCF for each of the following pairs of monomials

Type your answers in the boxes provided. In the GCF box type **only the final answer**.

$$5x, 15xy$$

$$5x = 5 \bullet x$$
$$15x = 3 \bullet 5 \bullet x$$

GCF =

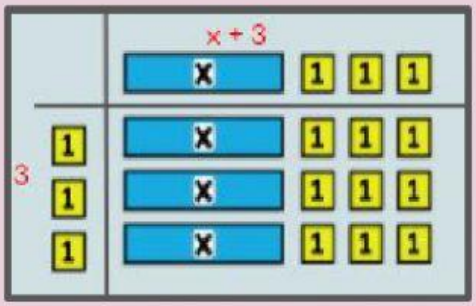
$$12, 24a$$

Type your prime factors from small to big and variables at the end

$$12 = \square \bullet \square \bullet \square$$
$$24a = \square \bullet \square \bullet \square \bullet \square \bullet \square$$

GCF =

## Question 5

Match the linear expression with its factors

| | |
|---|---|
| $3x + 9$ | $3(x - 2)$ |
| $4x - 13$ | $4(x - 2)$ |
| $4x + 6$ | $2(x + 2)$ |
| $3x - 6$ | $2(2x + 3)$ |
| $4x - 8$ | Cannot be factored |
| $2x + 4$ | |