

## Lesson 5

### Perimeter, Area & Volume : Year 9

*Non Calculator*

#### 5.1 STARTER

Expand the brackets.....

( i )       $(x + 3)(x + 7)$

( ii )       $(x + 5)(x + 4)$

( iii )       $(5x + 3)(2x + 5)$

( iv )       $(4x + 3)^2$

## 5.2 Exercise

### Question 1

Expand the brackets;

( i )      $(x - 3)(x - 5)$

( ii )      $(x - 2)(x - 17)$

( iii )      $(x - 8)(x - 5)$

( iv )      $(x - 9)(x - 11)$

( v )      $(x - 6)(x - 9)$

( vi )      $(x - 10)(x - 12)$

**Question 2****C A R E F U L !**

Expand the brackets;

**( i )**      $( 4x - 5 ) ( 3x - 2 )$

**( ii )**      $( 6x - 1 ) ( 6x - 5 )$

**( iii )**      $( 3x - 2 ) ( 5x - 3 )$

**( iv )**      $( 11x - 5 ) ( 9x - 1 )$

**( v )**      $( 8x - 7 ) ( x - 4 )$

**( vi )**      $( 3x - 11 ) ( 4x - 7 )$

**Question 3**

Expand the brackets;

**( i )**      $(x - 4)(x - 13)$

**( ii )**      $(x - 25)(x - 8)$

**( iii )**      $(x - 10)^2$

**( iv )**      $(x - 8)(x - 7)$

**( v )**      $(x - 15)(x - 6)$

**( vi )**      $(x - 16)(x - 3)$

#### Question 4

**C A R E F U L !**

Expand the brackets;

( i )      $( 5x - 7 ) ( 2x - 7 )$

( ii )      $( 5x - 11 ) ( 2x - 5 )$

( iii )      $( 2x - 7 ) ( 6x - 5 )$

( iv )      $( 10x - 7 ) ( 5x - 11 )$

( v )      $( 9x - 5 ) ( 5x - 2 )$

( vi )      $( 5x - 12 ) ( 3x - 2 )$