

# Algebra - Factorisation - Answers

## *More Binomial expressions - Ex2*

The following exercises all produce a polynomial of order one or two (ie quadratic) as result - which may have two or three terms. The result should be expressed in normalised polynomial form (ie with any constant term on the right and the highest power on the left). Calculators should *not* be used in evaluating the expressions.

1.  $2x + 6$   
 $2(x + 3)$

11.  $3u + 6$   
 $3(u + 2)$

2.  $3x + 15$   
 $3(x + 5)$

12.  $4x + 18$   
 $2(x + 9)$

3.  $2y - 4$   
 $2(y - 2)$

13.  $15x - 20$   
 $5(3x - 4)$

4.  $5x - 20$   
 $5(x - 4)$

14.  $42y - 48$   
 $6(7y - 8)$

5.  $2z + 2$   
 $2(z + 1)$

15.  $2x + 18$   
 $2(x + 9)$

6.  $6y - 36$   
 $6(y - 6)$

16.  $6x + 2$   
 $2(3x + 1)$

7.  $5k - 5$   
 $5(k - 1)$

17.  $6y - 48$   
 $6(y - 8)$

8.  $2x + 2y$   
 $2(x + y)$

18.  $8x + 6$   
 $2(4x + 3)$

9.  $7x + 21$   
 $7(x + 3)$

19.  $2x + 8$   
 $2(x + 4)$

10.  $15x - 20$   
 $5(3x - 4)$

20.  $15x - 30$   
 $15(x - 2)$