

Expand

1 $4(x + 3)$
 $4x + 12$

2 $6(y - 2)$
 $6y - 12$

3 $3(2a + 5)$
 $6a + 15$

4 $5(4 - m)$
 $20 - 5m$

5 $2(3p - 7)$
 $6p - 14$

6 $8(t + 0.5)$
 $8t + 4$

Factorise

7 $5x + 15$
 $5(x + 3)$

8 $8y - 12$
 $4(2y - 3)$

9 $6a + 9$
 $3(2a + 3)$

10 $14 - 7m$
 $7(2 - m)$

11 $10p + 25$
 $5(2p + 5)$

12 $18t - 24$
 $6(3t - 4)$

Expand and simplify

13 $2(x + 4) + 3x$
 $5x + 8$

14 $5(y - 1) - 2y$
 $3y - 5$

15 $3(a + 2) + 4(a + 1)$
 $7a + 10$

16 $6(m + 2) - 2(m + 3)$
 $4m + 6$

17 $4(2p - 1) - (p - 5)$
 $7p + 1$

18 $3(t - 4) + 2(6 - t)$
 t

Factorise fully

19 $8x^2 + 12x$
 $4x(2x + 3)$

20 $6y^2 - 9y$
 $3y(2y - 3)$

21 $10a + 15ac$
 $5a(2 + 3c)$

22 $12m^2 - 4m$
 $4m(3m - 1)$

23 $14p^2 + 21pq$
 $7p(2p + 3q)$

24 $9t^3 - 6t^2$
 $3t^2(3t - 2)$

Do what each question asks

25 Expand $3x(2x - 5)$
 $6x^2 - 15x$

26 Factorise $12y - 18$
 $6(2y - 3)$

27 Expand $-4(a - 3)$
 $12 - 4a$

28 Factorise $x^2 + 7x$
 $x(x + 7)$

29 Expand $2m(m + 3n)$
 $2m^2 + 6mn$

30 Factorise fully $15p^2 - 10p$
 $5p(3p - 2)$