

# Factoring Expressions (E)

Factor each expression.

1.  $30b^2 - 54b$

11.  $12b^2 + 36b$

21.  $36y^2 + 42y$

2.  $25y^2 + 5y$

12.  $3z^2 + 18z$

22.  $6x^2 - 14x$

3.  $18b^2 - 36b$

13.  $4b^2 - 4b$

23.  $12z^2 - 21z$

4.  $16x^2 - 28x$

14.  $18x^2 + 30x$

24.  $16x^2 - 32x$

5.  $30a^2 - 12a$

15.  $36z^2 + 18z$

25.  $2b^2 + 5b$

6.  $27a^2 - 12a$

16.  $24a^2 + 8a$

26.  $45a^2 - 40a$

7.  $4c^2 - 6c$

17.  $4x^2 + 12x$

27.  $30c^2 + 54c$

8.  $18x^2 - 81x$

18.  $12a^2 - 24a$

28.  $16a^2 - 28a$

9.  $30x^2 - 18x$

19.  $18b^2 - 18b$

29.  $21a^2 + 15a$

10.  $63a^2 + 14a$

20.  $21c^2 - 9c$

30.  $42b^2 - 30b$

# Factoring Expressions (E) Answers

Factor each expression.

1.  $30b^2 - 54b$   
 $6b(5b - 9)$

2.  $25y^2 + 5y$   
 $5y(5y + 1)$

3.  $18b^2 - 36b$   
 $18b(b - 2)$

4.  $16x^2 - 28x$   
 $4x(4x - 7)$

5.  $30a^2 - 12a$   
 $6a(5a - 2)$

6.  $27a^2 - 12a$   
 $3a(9a - 4)$

7.  $4c^2 - 6c$   
 $2c(2c - 3)$

8.  $18x^2 - 81x$   
 $9x(2x - 9)$

9.  $30x^2 - 18x$   
 $6x(5x - 3)$

10.  $63a^2 + 14a$   
 $7a(9a + 2)$

11.  $12b^2 + 36b$   
 $12b(b + 3)$

12.  $3z^2 + 18z$   
 $3z(z + 6)$

13.  $4b^2 - 4b$   
 $4b(b - 1)$

14.  $18x^2 + 30x$   
 $6x(3x + 5)$

15.  $36z^2 + 18z$   
 $18z(2z + 1)$

16.  $24a^2 + 8a$   
 $8a(3a + 1)$

17.  $4x^2 + 12x$   
 $4x(x + 3)$

18.  $12a^2 - 24a$   
 $12a(a - 2)$

19.  $18b^2 - 18b$   
 $18b(b - 1)$

20.  $21c^2 - 9c$   
 $3c(7c - 3)$

21.  $36y^2 + 42y$   
 $6y(6y + 7)$

22.  $6x^2 - 14x$   
 $2x(3x - 7)$

23.  $12z^2 - 21z$   
 $3z(4z - 7)$

24.  $16x^2 - 32x$   
 $16x(x - 2)$

25.  $2b^2 + 5b$   
 $b(2b + 5)$

26.  $45a^2 - 40a$   
 $5a(9a - 8)$

27.  $30c^2 + 54c$   
 $6c(5c + 9)$

28.  $16a^2 - 28a$   
 $4a(4a - 7)$

29.  $21a^2 + 15a$   
 $3a(7a + 5)$

30.  $42b^2 - 30b$   
 $6b(7b - 5)$