

# Factoring Expressions (A)

Factor each expression.

1.  $32x^2 + 8x$

11.  $24y^2 - 42y$

21.  $18x - 6$

2.  $32c - 24$

12.  $14x^2 - 8x$

22.  $24y^2 + 42y$

3.  $48b + 30$

13.  $7a^2 - 5a$

23.  $14c^2 + 28c$

4.  $6x + 12$

14.  $30b + 10$

24.  $7c^2 + 2c$

5.  $56c + 8$

15.  $8z^2 + 6z$

25.  $63c^2 + 14c$

6.  $18z^2 - 30z$

16.  $15y^2 - 15y$

26.  $8y^2 - 7y$

7.  $72a - 64$

17.  $8c^2 - 6c$

27.  $56c + 49$

8.  $81b - 45$

18.  $4z^2 + 12z$

28.  $12a - 12$

9.  $7b^2 - 14b$

19.  $8y - 14$

29.  $24y + 16$

10.  $35c - 40$

20.  $16x^2 - 16x$

30.  $12c^2 + 20c$

# Factoring Expressions (A) Answers

Factor each expression.

1.  $32x^2 + 8x$   
 $8x(4x + 1)$

2.  $32c - 24$   
 $8(4c - 3)$

3.  $48b + 30$   
 $6(8b + 5)$

4.  $6x + 12$   
 $6(x + 2)$

5.  $56c + 8$   
 $8(7c + 1)$

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

7.  $72a - 64$   
 $8(9a - 8)$

8.  $81b - 45$   
 $9(9b - 5)$

9.  $7b^2 - 14b$   
 $7b(b - 2)$

10.  $35c - 40$   
 $5(7c - 8)$

11.  $24y^2 - 42y$   
 $6y(4y - 7)$

12.  $14x^2 - 8x$   
 $2x(7x - 4)$

13.  $7a^2 - 5a$   
 $a(7a - 5)$

14.  $30b + 10$   
 $10(3b + 1)$

15.  $8z^2 + 6z$   
 $2z(4z + 3)$

16.  $15y^2 - 15y$   
 $15y(y - 1)$

17.  $8c^2 - 6c$   
 $2c(4c - 3)$

18.  $4z^2 + 12z$   
 $4z(z + 3)$

19.  $8y - 14$   
 $2(4y - 7)$

20.  $16x^2 - 16x$   
 $16x(x - 1)$

21.  $18x - 6$   
 $6(3x - 1)$

22.  $24y^2 + 42y$   
 $6y(4y + 7)$

23.  $14c^2 + 28c$   
 $14c(c + 2)$

24.  $7c^2 + 2c$   
 $c(7c + 2)$

25.  $63c^2 + 14c$   
 $7c(9c + 2)$

26.  $8y^2 - 7y$   
 $y(8y - 7)$

27.  $56c + 49$   
 $7(8c + 7)$

28.  $12a - 12$   
 $12(a - 1)$

29.  $24y + 16$   
 $8(3y + 2)$

30.  $12c^2 + 20c$   
 $4c(3c + 5)$