

**A.SSE.A.2: Factoring Polynomials 3**

- 1 Factor:  $a^2 - 2a + 1$
- 2 Factor:  $a^2 - a - 2$
- 3 Factor:  $a^2 - a - 6$
- 4 Factor:  $x^2 + x - 12$
- 5 Factor:  $x^2 - 10x + 21$
- 6 Factor:  $a^2 + 4a - 21$
- 7 Factor:  $x^2 + x - 30$
- 8 Factor:  $6 + x - x^2$
- 9 Factor:  $21 - 4c - c^2$
- 10 Factor:  $x^2 + x + \frac{1}{4}$
- 11 Factor:  $2a^2 - 10a - 28$
- 12 Factor:  $3x^2 - 6x - 105$
- 13 Factor:  $x^3 + 8x^2 + 7x$
- 14 Factor:  $a^3 - 3a^2 - 10a$
- 15 Factor completely:  $x^3 - x^2 - 6x$
- 16 If  $x + 2$  is a factor of  $x^2 + bx + 10$ , what is the value of  $b$ ?

**A.SSE.A.2: Factoring Polynomials 3**  
**Answer Section**

1 ANS:

$$(a - 1)^2$$

REF: 119404al

2 ANS:

$$(a - 2)(a + 1)$$

REF: 119404al

3 ANS:

$$(a - 3)(a + 2)$$

REF: 019506al

4 ANS:

$$(x + 4)(x - 3)$$

REF: 069503al

5 ANS:

$$(x - 3)(x - 7)$$

REF: 019004al

6 ANS:

$$(a + 7)(a - 3)$$

REF: 019604al

7 ANS:

$$(x + 6)(x - 5)$$

REF: 060003al

8 ANS:

$$-(x - 3)(x + 2)$$

REF: 089304al

9 ANS:

$$-(c + 7)(c - 3)$$

REF: 030003al

10 ANS:

$$\left(x + \frac{1}{2}\right)\left(x + \frac{1}{2}\right)$$

REF: 069607al

11 ANS:  
 $2(a - 7)(a + 2)$

REF: 089803al

12 ANS:  
 $3(x - 7)(x + 5)$

REF: 099806al

13 ANS:  
 $x(x + 7)(x + 1)$

REF: 019105al

14 ANS:  
 $a(a - 5)(a + 2)$

REF: 069903al

15 ANS:  
 $x(x - 3)(x + 2)$

REF: 018912siii

16 ANS:  
7

REF: 010007siii