TEST NAME: **NAMSIM1314A-SSE.2**
TEST ID: **130094**
GRADE: **09**
SUBJECT: **Mathematics**
TEST CATEGORY: **My Classroom**

Student:

Class:

Date:

1. Which expression is equivalent to $y^2 - 25$?

   A. $(y - 5)(y - 5)$

   B. $(y - 5)(y + 5)$

   C. $(y - 25)(y - 1)$

   D. $(y - 25)(y + 5)$

2. Which expression is equivalent to $100 - 4x^2$?

   A. $4(5 - x)(5 + x)$

   B. $4(5 - x)^2$

   C. $4(x - 5)^2$

   D. $4(x + 5)(x - 5)$

3. Which expression is equivalent to $x^2 - y^2$?

   A. $(x - y)(x - y)$

   B. $(x + y)(x - y)$

   C. $(x + y)(x + y)$

   D. $2(x - y)$

4. Which expression is equivalent to $x^2 - 16x + 60$?

   A. $(x - 12)(x - 5)$

   B. $(x + 20)(x - 3)$

   C. $(x - 15)\ (x - 4)$

   D. $(x - 10)(x - 6)$

5. Which expression is equivalent to $y^3 + 4y^2 - 21y$?

A. $(y^2 - 3)(y + 7)$

B. $(y^2 + 3)(y - 7)$

C. $y(y - 3)(y + 7)$

D. $y(y + 3)(y - 7)$

6. Which expression is equivalent to $2x^2 - 18x - 20$?

A. $2(x - 20)(x + 1)$

B. $2(x - 5)(x + 4)$

C. $2(x - 1)(x + 10)$

D. $2(x - 10)(x + 1)$

7. Which expression is a factor of $2x^2 - 13x + 15$?

A. $2x + 15$

B. $2x + 5$

C. $x - 5$

D. $x - 3$

8. Which expression is equivalent to $121 - m^2$?

A. $(^-1)(m + 11)(m + 11)$

B. $(m + 11)(m - 11)$

C. $(11 - m)(11 - m)$

D. $(11 + m)(11 - m)$

9. Which expression is equivalent to $x^2 - 49$?

A. $(x + 24.5)(x - 24.5)$

B. $(x - 24.5)(x - 24.5)$

C. $(x - 7)(x - 7)$

D. $(x - 7)(x + 7)$

10. Which expression is equivalent to $4x^2 - 121$?

A. $(2x - 11)(2x - 11)$

B. $(2x - 11)(2x + 11)$

C. $(4x - 11)(x - 11)$

D. $(4x - 11)(x + 11)$

11. Which expression is equivalent to $7x^2 - 35x - 42$?

A. $7(x - 6)(x + 1)$

B. $7(x - 1)(x + 6)$

C. $7(x - 3)(x - 2)$

D. $7(x + 3)(x - 2)$

12. Which expression is equivalent to $14x^2 - 29x - 15$?

A. $(2x + 5)(7x - 3)$

B. $(2x - 5)(7x + 3)$

C. $(14x + 5)(x - 3)$

D. $(14x - 5)(x + 3)$

13. Which expression is equivalent to $2x^2 - 18x + 28$?

A. $(2x - 7)(x - 4)$

B. $(2x + 7)(x - 4)$

C. $2(x - 7)(x - 2)$

D. $2(x + 7)(x - 2)$

14. Which expression is equivalent to $a^2 + 2a - 8$?

A. $(a + 2)(a - 4)$

B. $(a + 4)(a - 2)$

C. $(a + 1)(a - 8)$

D. $(a - 1)(a + 8)$

15. Which expression is equivalent to $6x^2 + 7x - 3$?

A. $(6x - 1)(x + 3)$

B. $(6x + 1)(x - 3)$

C. $(3x - 1)(2x + 3)$

D. $(3x - 3)(2x + 1)$

16. Which expression is equivalent to $x^2 - 64$?

A. $(x - 8)(x - 8)$

B. $(x - 8)(x + 8)$

C. $(x - 4)(x - 16)$

D. $(x - 4)(x + 16)$

17. Which expression is equivalent to $x^2 - 12x + 36$?

A. $(x + 9)(x - 4)$

B. $(x - 9)(x - 4)$

C. $(x + 6)(x - 6)$

D. $(x - 6)(x - 6)$

18. Which expression is equivalent to $6x^2 - 29x + 28$?

A. $(6x - 7)(x + 4)$

B. $(6x - 7)(x - 4)$

C. $(2x - 7)(3x + 4)$

D. $(2x - 7)(3x - 4)$

19. Which expression is equivalent to $4x^2 + x - 3$?

A. $(4x - 3)(x + 1)$

B. $(4x + 3)(x - 1)$

C. $(2x - 3)(2x + 1)$

D. $(2x + 3)(2x - 1)$

20. Which expression is equivalent to $x^2 - 4y^2$?

A. $(x + 2y)(x - 2y)$

B. $(x - 2y)(x - 2y)$

C. $(x + y)(x - 4y)$

D. $(x + 4y)(x - y)$

21. Which expression is a factor of $a^2 - a - 30$?

A. $a - 5$

B. $a - 2$

C. $a + 5$

D. $a + 6$

22. Which expression is equivalent to $3x^2 + 4x - 15$?

A. $(3x - 5)(x + 3)$

B. $(3x + 5)(x - 3)$

C. $(3x - 1)(x + 15)$

D. $(3x + 1)(x - 15)$

23. Which expression is equivalent to $8x^2 + 3x - 5$?

A. $(4x - 5)(2x + 1)$

B. $(4x + 5)(2x - 1)$

C. $(8x - 5)(x + 1)$

D. $(8x + 5)(x - 1)$

24. Which expression is equivalent to $8x^2 + 26x - 7$?

A. $(8x - 1)(x + 7)$

B. $(4x + 7)(2x - 1)$

C. $(8x + 7)(x - 1)$

D. $(4x - 1)(2x + 7)$

25. Which expression is equivalent to $x^2 + 5x - 24$?

A. $(x + 8)(x + 3)$

B. $(x - 8)(x + 3)$

C. $(x - 8)(x - 3)$

D. $(x + 8)(x - 3)$

26. Which expression is equivalent to $^{-}10x^2 - 35x + 75$?

A. $^{-}5(2x - 5)(x + 3)$

B. $^{-}5(2x - 3)(x + 5)$

C. $5(2x - 5)(x + 3)$

D. $5(2x - 3)(x + 5)$

27. Which expression is equivalent to $r^2 + r - 2$?

A. $(r + 2)(r + 1)$

B. $(r - 2)(r + 1)$

C. $(r + 2)(r - 1)$

D. $(r - 2)(r - 1)$

28. Which expression is equivalent to $4t^2 - 16$?

A. $4(t - 4)(t - 4)$

B. $4(t + 4)(t - 4)$

C. $4(t + 2)(t - 2)$

D. $4(t - 2)(t - 2)$

29. Which expression is equivalent to $6x^2 + x - 1$?

A. $(2x - 1)(3x + 1)$

B. $(2x + 1)(3x - 1)$

C. $(6x + 1)(x - 1)$

D. $(6x - 1)(x + 1)$

30. Which expression is equivalent to $12r^2 + r - 35$?

A. $(2r - 5)(6r + 7)$

B. $(2r + 5)(6r - 7)$

C. $(3r - 5)(4r + 7)$

D. $(3r + 5)(4r - 7)$

31. Which expression is equivalent to $12x^2 + 16x - 35$?

A. $(6x + 7)(2x - 5)$

B. $(3x + 7)(4x - 5)$

C. $(2x + 5)(6x - 7)$

D. $(4x - 5)(3x - 7)$

32. Which expression is equivalent to $2x^2 - 72$?

A. $(2x - 9)(x - 8)$

B. $(2x - 9)(x + 8)$

C. $2(x - 6)(x - 6)$

D. $2(x - 6)(x + 6)$

33. Which expression is equivalent to $7r^2 - 43rs + 6s^2$?

A. $(r + 6s)(7r - s)$

B. $(r - s)(7r - 6s)$

C. $(r - 2s)(7r - 3s)$

D. $(r - 6s)(7r - s)$

34. Which expression is equivalent to $15x^2 + 32x - 28$?

A. $(3x + 4)(5x - 7)$

B. $(3x - 4)(5x + 7)$

C. $(3x + 2)(5x - 14)$

D. $(3x - 2)(5x + 14)$