Factoring Expressions

1. 1. Factor: 100 - 5n 1 point

Mark only one oval.

- A 5(20 - 5n)
- B 5(20 - n)
- C 5(100 - n)
- D 5(100 - 5n)

2. 2. Factor: 0.25r +0.6s 1 point

Mark only one oval.

- A 0.25(r + 2.4s)
- B 0.25(0.25r + 0.6s)
- C 0.25(r + 0.6s)
- D 0.25(r + 2.4)

3. 3. Factor: 5x + 10y + 30z 1 point

Mark only one oval.

- A 5(x + 10y + 30z)
- B 5(x + 2y) + 30z
- C 5(x + 2y + 6)
- D 5(x + 2y + 6z)

4. 4. Factor: 21a +7b + 42c 1 point

Mark only one oval.

- A 21(a + 7b + 42c)
- B 7(21a + b + 42c)
- C 7(3a + b + 6c)
- D 7(3a + 7b + 6c)

5. 5. Factor: 12x - 156y + 96z 1 point

Mark only one oval.

- A 12(x - 13y + 8z)
- B 12(x - 14y) + 9z
- C 12(x - 14y + 9z)
- D 12(x - 13y) + 8z

6. 6. Factor: 6st + 18rs + 3rt 1 point

Mark only one oval.

- A 6(st + 3rt + 6rs)
- B 3(6rs + 2st + rt)
- C 3(2st + rt + 6st)
- D 3(6st + 2rs + rt)

7. 7. Factor: 45c + 10d 1 point

Mark only one oval.

- A 10(4c + d)
- B 5(4.5c + 2d)
- C 5(9c + 2d)
- D 5(9c + 10d)

8. 8. Factor: 27 - 9x + 15y 1 point

Mark only one oval.

- A 9(3 - x + y)
- B 9(3 - x + 15y)
- C 3(9 + 3x - 5y)
- D 3(9 - 3x + 5y)

9. 9. Factor 1/2 out of (1/2)(x) - (7/2)(y) 1 point

Mark only one oval.

- A 1/2[(1/2)(x) - (7/2)]
- B 1/2[x - (7/2)(y)]
- C 1/2[x - 7y]
- D 1/2[(1/2)(x) - 7y]

10. 10. Factor 3/4 out of (6/8)(r) + 12/16 1 point

Mark only one oval.

- A 3/4[2r + 4]
- B 3/4[r + 1]
- C 3/4[r + 4]
- D 3/4[2r + 1]

11. 11. Factor -8 out of -56s + 32 1 point

Mark only one oval.

- A -8(-7s + 3)
- B -8(7s - 4)
- C -8(7s + 4)
- D -8(-7s - 3)

12. 12. Factor -9 out of 108r - 216s + 72t 1 point

Mark only one oval.

- A -9(-12r + 24s - 8t)
- B -9(12r - 24s + 8t)
- C -9(-12r -24s + 8t)
- D -9(12r + 24s -8t)

13. 13. Factor -4 out of -64ab - 48bc + 96cd - 108ad 1 point

Mark only one oval.

- A -4(16ab - 12bc + 24cd - 27ad)
- B -4(-16ab - 12 bc + 24cd - 27ad)
- C -4(-16ab + 12bc - 24cd + 27ad)
- D -4(16ab + 12bc - 24cd +27ad)

14. 14. Factor -0.5 out of -0.35d + 0.75 - 0.95b 1 point

Mark only one oval.

- A -0.5(-0.7d + 1.5 - 1.9b)
- B -0.5(-0.7d - 1.5 + 1.9b)
- C -0.5(0.7d + 1.9b - 1.5)
- D -0.5(0.7b + 1.9d - 1.5)

15. 15. Factor -6 out of 6ade + 18aed - 36asd + 24ads 1 point

Mark only one oval.

- A -6(ade - 3aed + 6asd - 4ads)
- B -6(ade + 3aed - 6ads + 4asd)
- C -6(-ade -3aed + 6ads - 4asd)
- D -6(-ade -3aed +6asd - 4ads)

16. 16. You can find the word of the day by going back and finding the answer to question #8. Use that letter a, b, c, or d, to answer this question. (This is your bonus point question) 1 point

Mark only one oval.

- A Move
- B Balance
- C Stride
- D Climb