Math 10

Lesson 2–5 Answers

**Assignment – Part A**

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| 1. | 4ab2(3a2b5 + ab3 – 2) | 21. | (x + 2)3 (x – 2) |
| 2. | 5cd(c2 + 14cd + 12d2) | 22. | (x – 11)(x + 1) |
| 3. | 3(3x – 10y)(3x + 10y) | 23. | (j – 13)(j + 13) |
| 4. | (n – 10p)(n – 3p) | 24. | (3x + y)(2x + 7y) |
| 5. | (x – 1)2(x + 1)2  | 25. | (a – 2x)(a + 12x) |
| 6. | (3x – 1)(x + 2) | 26. | (3x2 – 5)(2x + 1) |
| 7. | 3x3y3(6x + 3y – 1) | 27. | (4a – b)(3a – b) |
| 8. | 4(2w + 1)(w – 6) | 28. | (9b – 8)(9b + 8) |
| 9. | (d + 3)2 | 29. | (5x2 + 3y – 1)(8 – x) |
| 10. | (3x – ½y)(3x + ½y) | 30. | DNF → not a difference of squares |
| 11. | 5xy(x + y)(9x – 2y) | 31. | 2(x4 + 5x2 +36) |
| 12. | b(50a + 9b) | 32. | (2x – 1)(2x + 1)(4x2 + 1) |
| 13. | DNF → no 2 #s add to 1 & multiply to 20 | 33. | (3m2 + 4)(m + 7n) |
| 14. | (x + 11)(x – 1) | 34. |  –3(y – 27)(y + 2) |
| 15. | s(r + 2s)(r + s) | 35. | 2w(3w – 5)(w – 3) |
| 16. | DNF → no 2 #s add to 4 & multiply to 5 | 36. | (3c + 4d)(2c – 3d) |
| 17. | 5t(2s + 3) | 37. | (2x + 5)2 |
| 18. | (7w + 10)(x – w) | 38. | (5x – 2y)2 |
| 19. | (x – 5)(x + 5)(x2 + 25) | 39. | mn2(m –2 )2 |
| 20. | (3a + 2b)(a – 4b) | 40. | 2x(x + 3)2 |

**Assignment – Part B**

1. (40 – 2x); (18 + x)

2. 12x + 20y. Factor the expression and then multiply the length of a single side (factor) by 4.

3. a) rectangle b) 2x – 1 by 4x + 7

4. a) h = –5(t – 6)(t + 1) b) 61.25 m