

# Expressions

## Skill Solving by Substitution

Name \_\_\_\_\_

Evaluate the expressions. Use  $a=6$ ,  $b=5$  and  $c=4$ .

Total Problems 48

Problems Correct \_\_\_\_\_

Percent Correct \_\_\_\_\_

- |                        |                        |                        |                     |
|------------------------|------------------------|------------------------|---------------------|
| 1. $b + 9$             | 2. $a - c$             |                        |                     |
| 3. $a + 8$             | 4. $\frac{12}{c}$      |                        |                     |
| 5. $\frac{15}{b}$      | 6. $c - 1$             | 7. $bc$                | 8. $a + -c$         |
| 9. $4b - a$            | 10. $4(b + c)$         | 11. $8 + c$            | 12. $b^2$           |
| 13. $c^3 - a^2$        | 14. $\frac{33}{a + b}$ | 15. $6a + -8c$         | 16. $ca + b$        |
| 17. $\frac{26 - a}{c}$ | 18. $a^2 + b$          | 19. $\frac{2b + 2}{a}$ | 20. $\frac{a^2}{c}$ |

Evaluate the expressions. Use  $x=2$ ,  $y=7$  and  $z=-5$ .

- |                        |                     |                       |                        |
|------------------------|---------------------|-----------------------|------------------------|
| 21. $z - y$            | 22. $2y + x$        | 23. $xz$              | 24. $y^2$              |
| 25. $4xy - z$          | 26. $xy + 1$        | 27. $28 + y$          | 28. $6z$               |
| 29. $3(x + y)$         | 30. $2xyz$          | 31. $x^3$             | 32. $3^x$              |
| 33. $10^x$             | 34. $xz^x$          | 35. $\frac{y - z}{x}$ | 36. $\frac{16 - x}{y}$ |
| 37. $y^x - 6y$         | 38. $4^x - y$       | 39. $z^x$             | 40. $yz + 40$          |
| 41. $\frac{25}{-z}$    | 42. $x^y$           | 43. $10y + z$         | 44. $-3xz$             |
| 45. $\frac{x + -z}{y}$ | 46. $\frac{77}{-y}$ | 47. $z^3$             | 48. $x^2(x + y)$       |