

Name \_\_\_\_\_



Date \_\_\_\_\_

## Evaluate Expressions

**Part I: Use substitution to evaluate each expression. SHOW YOUR WORK!! (No work = no credit!)**

1. $9y - 3$  <b>if</b> $y = 11$	2. $7m$  <b>if</b> $m = 5$	3. $d^2 - 2d$  <b>if</b> $d = 9$
4. $6q + 39$  <b>if</b> $q = 10$	5. $6v$  <b>if</b> $v = 3$	6. $j^3 + 11$  <b>if</b> $j = 8$
7. $2k^2 + 5k + 2$  <b>if</b> $k = 11$	8. $\frac{n}{3} + n$  <b>if</b> $n = 27$	9. $a \div 3$  <b>if</b> $a = 42$
10. $4(11 + p) + 13$  <b>if</b> $p = 89$	11. $h^3 - 2$  <b>if</b> $h = 7$	12. $14z - 1$  <b>if</b> $z = 9$
13. $15e + 37$  <b>if</b> $e = 5$	14. $19r$  <b>if</b> $r = 8$	15. $x^2 + 2x + 4 + x$  <b>if</b> $x = 10$
16. $7(4 + h)$  <b>if</b> $h = 21$	17. $13 + w$  <b>if</b> $w = 26$	18. $b - 15$  <b>if</b> $b = 15$

19. $\frac{y}{12} + y$  <b>if</b> $y = 72$	20. $3b^2 + 5b$  <b>if</b> $b = 2$	21. $8e + 22$  <b>if</b> $e = 5$
22. $2x^2 - 11x + 6$  <b>if</b> $x = 12$	23. $p^3 - 4p$  <b>if</b> $p = 4$	24. $16(3 + a) - a$  <b>if</b> $a = 13$

# Answer Key

## Evaluate Expressions

**Part I: Use substitution to evaluate each expression. SHOW YOUR WORK!! (No work = no credit!)**

1. $9y - 3$  if $y = 11$ <b>96</b>	2. $7m$  if $m = 5$ <b>35</b>	3. $d^2 - 2d$  if $d = 9$ <b>63</b>
4. $6q + 39$  if $q = 10$ <b>99</b>	5. $6v$  if $v = 3$ <b>18</b>	6. $j^3 + 11$  if $j = 8$ <b>523</b>
7. $2k^2 + 5k + 2$  if $k = 11$ <b>299</b>	8. $\frac{n}{3} + n$  if $n = 27$ <b>36</b>	9. $a \div 3$  if $a = 42$ <b>14</b>
10. $4(11 + p) + 13$  if $p = 89$ <b>413</b>	11. $h^3 - 2$  if $h = 7$ <b>341</b>	12. $14z - 1$  if $z = 9$ <b>125</b>
13. $15e + 37$  if $e = 5$ <b>112</b>	14. $19r$  if $r = 8$ <b>152</b>	15. $x^2 + 2x + 4 + x$  if $x = 10$ <b>134</b>
16. $7(4 + h)$  if $h = 21$ <b>175</b>	17. $13 + w$  if $w = 26$ <b>39</b>	18. $b - 15$  if $b = 15$ <b>0</b>

19. $\frac{y}{12} + y$  <b>if</b> $y = 72$ <b>78</b>	20. $3b^2 + 5b$  <b>if</b> $b = 2$ <b>22</b>	21. $8e + 22$  <b>if</b> $e = 5$ <b>62</b>
22. $2x^2 - 11x + 6$  <b>if</b> $x = 12$ <b>162</b>	23. $p^3 - 4p$  <b>if</b> $p = 4$ <b>48</b>	24. $16(3 + a) - a$  <b>if</b> $a = 13$ <b>243</b>