

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Score: \_\_\_\_\_

# Algebraic Expressions Worksheet

Evaluate each algebraic expression for the given value of the variable.

①  $\frac{w}{2} - 5$  at  $w = 12$

\_\_\_\_\_

②  $\frac{c^2}{4} + 2$  at  $c = 2$

\_\_\_\_\_

③  $\frac{n}{2} + 6$  at  $n = 8$

\_\_\_\_\_

④  $3 - \frac{p^2}{2}$  at  $p = 5$

\_\_\_\_\_

⑤  $\frac{q}{3} + 4$  at  $q = 3$

\_\_\_\_\_

⑥  $(x + 4)^2$  at  $x = -4$

\_\_\_\_\_

⑦  $8(l - 6)$  at  $l = -1$

\_\_\_\_\_

⑧  $\frac{5v + 3}{2}$  at  $v = -3$

\_\_\_\_\_

⑨  $(q - 5)^3$  at  $q = 2$

\_\_\_\_\_

⑩  $\frac{d}{2} - 1$  at  $d = 16$

\_\_\_\_\_

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## Answers

①  $\frac{w}{2} - 5$  at  $w = 12$

1

②  $\frac{c^2}{4} + 2$  at  $c = 2$

3

③  $\frac{n}{2} + 6$  at  $n = 8$

10

④  $3 - \frac{p^2}{2}$  at  $p = 5$

$\frac{19}{2}$

⑤  $\frac{q}{3} + 4$  at  $q = 3$

5

⑥  $(x + 4)^2$  at  $x = -4$

4

⑦  $8(l - 6)$  at  $l = -1$

-56

⑧  $\frac{5v + 3}{2}$  at  $v = -3$

9

⑨  $(q - 5)^3$  at  $q = 2$

-27

⑩  $\frac{d}{2} - 1$  at  $d = 16$

7