



Evaluating Algebraic Expressions

Name _____

Score _____

EAE:09

Evaluate each algebraic expression.

1) $6 + 7q$ when $q = \frac{2}{7}$

2) $\frac{16}{k}$ when $k = \frac{4}{5}$

3) $\frac{2}{5}p^2$ when $p = \frac{5}{6}$

4) $6z - 11$ when $z = \frac{4}{3}$

5) $(3 - m)(m + 4)$ when $m = -\frac{1}{2}$

6) $a - a^2 + 1$ when $a = -\frac{3}{8}$

7) $10 - 9d$ when $d = \frac{7}{9}$

8) $x(4 - x)$ when $x = -\frac{1}{4}$



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Answer key

EAE:09

Evaluate each algebraic expression.

1) $6 + 7q$ when $q = \frac{2}{7}$

8

2) $\frac{16}{k}$ when $k = \frac{4}{5}$

20

3) $\frac{2}{5}p^2$ when $p = \frac{5}{6}$

$\frac{5}{18}$

4) $6z - 11$ when $z = \frac{4}{3}$

-3

5) $(3 - m)(m + 4)$ when $m = -\frac{1}{2}$

$12\frac{1}{4}$

6) $a - a^2 + 1$ when $a = -\frac{3}{8}$

$\frac{31}{64}$

7) $10 - 9d$ when $d = \frac{7}{9}$

3

8) $x(4 - x)$ when $x = -\frac{1}{4}$

$-1\frac{1}{16}$