Expand and Simplify

Name ....

Date ....

Question 1.

Expand and simplify:

a. $2(h + 3) + 4$ = _____

= _____

b. $2(b + 2) - 2$ = _____

= _____

c. $2(d + 5) - 3$ = _____

= _____

d. $4(v + 5) + 17$ = _____

= _____

e. $3(y + 3) - 6$ = _____

= _____

f. $4(x + 5) + 16$ = _____

= _____

g. $5(q + 3) - 10$ = _____

= _____

h. $4(p + 3) - 3$ = _____

= _____

i. $5(g + 3) + 9$ = _____

= _____

j. $5(u + 2) - 2$ = _____

= _____

Question 2.

Expand and simplify:

a. $6(d + 5) + 2d$ = _____

= _____

b. $5(e - 7) + 4e$ = _____

= _____

c. $9(p + 2) + 6p$ = _____

= _____

d. $9(v - 5) + 8v$ = _____

= _____

e. $6(t - 3) - 4t$ = _____

= _____

f. $8(s + 6) + 3s$ = _____

= _____

g. $9(n + 7) - 6n$ = _____

= _____

h. $3(h - 6) + 2h$ = _____

= _____

i. $7(r + 9) - 2r$ = _____

= _____

j. $3(k + 8) - 2k$ = _____

= _____

Question 3.

Expand and simplify:

a. $5(5h + 5) + 11h$ = _____

                       = _____

b. $4(2n + 7) + 4n$ = _____

                       = _____

c. $5(4m + 9) - 2m$ = _____

                       = _____

d. $4(6y + 2) - 10y$ = _____

                       = _____

e. $4(5f + 3) - 11f$ = _____

                       = _____

f. $4(2d + 8) + 2d$ = _____

                       = _____

g. $6(6w - 4) - 34w$ = _____

                       = _____

h. $6(5f + 3) - 24f$ = _____

                       = _____

i. $4(4v - 2) + 11v$ = _____

                       = _____

j. $5(3r + 3) + 5r$ = _____

                       = _____

Question 4.

Expand and simplify:

a. $6n + 2(2n - 8)$ = _____

                       = _____

b. $27c + 5(4c + 5)$ = _____

                       = _____

c. $24m + 4(5m + 7)$ = _____

                       = _____

d. $19a - 3(4a + 8)$ = _____

                       = _____

e. $7s + 2(2s + 9)$ = _____

                       = _____

f. $18p + 3(3p + 5)$ = _____

                       = _____

Question 5.

Expand and simplify:

a. $9(3v + 6) + 3(v + 6)$ = _____

                       = _____

b. $8(n + 7) - 2(n + 7)$ = _____

                       = _____

c. $4(2f + 5) - 2(f + 9)$ = _____

                       = _____

d. $9(2w + 5) - 2(w + 9)$ = _____

                       = _____

e. $4(3k + 2) + 2(k + 7)$ = _____

                       = _____

f. $9(x + 9) - 3(x + 7)$ = _____

                       = _____

Expand and Simplify - Answers

Question 1.
a. $2h + 10$
b. $2b + 2$
c. $2d + 7$
d. $4v + 37$
e. $3y + 3$
f. $4x + 36$
g. $5q + 5$
h. $4p + 9$
i. $5g + 24$
j. $5u + 8$

Question 2.
a. $8d + 30$
b. $9e - 35$
c. $15p + 18$
d. $17v - 45$
e. $2t - 18$
f. $11s + 48$
g. $3n + 63$
h. $5h - 18$
i. $5r + 63$
j. $k + 24$

Question 3.
a. $36h + 25$
b. $12n + 28$
c. $18m + 45$
d. $14y + 8$
e. $9f + 12$
f. $10d + 32$
g. $2w - 24$
h. $6f + 18$
i. $27v - 8$
j. $20r + 15$

Question 4.
a. $10n - 16$
b. $47c + 25$
c. $44m + 28$
d. $7a - 24$
e. $11s + 18$
f. $27p + 15$
g. $6w - 21$
h. $20c + 32$
i. $46p + 8$
j. $6v + 15$

Question 5.
a. $30v + 72$
b. $6n + 42$
c. $6f + 2$
d. $16w + 27$
e. $14k + 22$
f. $6x + 60$
g. $10z + 32$
h. $10k + 53$
i. $19e + 28$
j. $11e + 20$