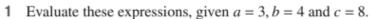
Formula and Equations

Substitution



a
$$5a+b$$

b
$$a + 4h$$

$$\mathbf{C}$$
 $a-b+c$

d
$$a^2 + b^2$$

e
$$4b \times (-2a)$$

f
$$\sqrt{2ab}$$

g
$$\frac{abc}{2}$$

h
$$b^2 \div c$$

$$i \frac{2ab}{c}$$

2 Find the value of
$$3a + 2b$$
 when:

a
$$a = 5$$
 and $b = 5$

b
$$a = 6$$
 and $b = -4$

c
$$a = 0$$
 and $b = 0$

d
$$a = -7$$
 and $b = -2$

e
$$a = \frac{2}{3}$$
 and $b = 1$

f
$$a = 2 \text{ and } b = \frac{1}{2}$$

3 Calculate the value of
$$e^2 - 3$$
 when:

a
$$e = 1$$

b
$$e = 3$$

$$e = 10$$

$$de=2$$

$$e e = -1$$

$$f e = -2$$

$$g e = \frac{1}{2}$$

h
$$e = 3.1$$

$$i e = \frac{1}{5}$$

4 Determine the value of
$$2r^2 + r + 1$$
 when:

a
$$r = 2$$

b
$$r = 5$$

$$c r = -$$

d
$$r = -0.2$$

e
$$r = \frac{2}{3}$$

c
$$r = -7$$

f $r = -\frac{3}{4}$

5 Calculate the value of mc^2 when:

a
$$m = 4$$
 and $c = 2$

b
$$m = 2$$
 and $c = 7$

c
$$m = -3$$
 and $c = -10$

d
$$m = 8$$
 and $c = 0.5$

e
$$m = -0.2$$
 and $c = 15$

f
$$m = 6.25$$
 and $c = -1.5$

g
$$m = \frac{7}{10}$$
 and $c = \frac{1}{5}$ h $m = -\frac{3}{8}$ and $c = 0.75$

h
$$m = -\frac{3}{6}$$
 and $c = 0.7$

i
$$m = \frac{7}{9}$$
 and $c = 0.3$

6 Find $\sqrt{\frac{2a}{b}}$ when:

a
$$a = 6$$
 and $b = 3$

b
$$a = 50$$
 and $b = 4$

c
$$a = -1$$
 and $b = -0.5$

d
$$a = 18$$
 and $b = 4$

e
$$a = -0.25$$
 and $b = -0.5$ f $a = 8$ and $b = 0.25$

$$f = a = 8$$
 and $b = 0.25$

g
$$a = \frac{1}{4}$$
 and $b = 8$

h
$$a = \frac{7}{9}$$
 and $b = \frac{4}{7}$

h
$$a = \frac{7}{8}$$
 and $b = \frac{4}{7}$ i $a = -\frac{1}{10}$ and $b = -125$