

A.2

1.

Victor bought a computer for \$1,800. He made a down payment of \$200 and will pay the rest in 5 equal payments. If p represents the amount of each payment, which equation can be used to find this amount?

F $\$200p = \$1,800$

G $\$1,800 + 5p = \200

H $\$1,800 + \$200 = 5p$

J $\$1,800 = 5p + \200

2.

What is the value of $x(5 + y)$ if $x = 4$ and $y = 2$?

A 18

B 22

C 28

D 36

3.

What is the value of $a(b - c)$ if $a = 2$, $b = -3$ and $c = -2$?

A 2

B -2

C -4

D -10

4.

Each week Jessica earns a 2% bonus on any sales she makes over \$600. She also receives a fixed salary of \$190 per week. If Jessica sold \$1,300 worth of merchandise in a week, which equation could be used to determine her total earnings, t , for the week?

F $t = (0.02)[1.90 + (1,300 - 600)]$

G $t = 190 + (0.02)(600)$

H $t = (190 + 600)(0.02)$

J $t = 190 + (0.02)(1,300 - 600)$

5.

Which expression correctly describes x divided by the sum of y and 7?

A $x \div y + 7$

B $\frac{x}{y + 7}$

C $\frac{x}{y} + 7$

D $\frac{y + 7}{x}$

6.

What is the value of $3x^2 - y^2$ if $x = -1$ and $y = 3$?

A 12

B -3

C -6

D -12

7.

Which expression correctly represents \$10 less than twice the cost, c ?

F $10 - 2c$

G $10 - 2 + c$

H $2c - 10$

J $\frac{c}{2} - 10$

8.

A consulting engineer bills his customers \$90 for each hour he works. If a client's bill is \$955, which equation could be used to find the number of hours worked?

F $\frac{90}{x} = 955$

G $\frac{x}{955} = 90$

H $90x = 955$

J $955x = 90$