

**SUBSTITUTION - VERSION A****ANSWERS - VERSION A**

HELPFUL EXAMPLES. FIND THE VALUE OF EACH EXPRESSION IF  $a = 6$  AND  $b = 2$ .

A.  $3ab = 3 \times a \times b$

B.  $\frac{a}{b} = a \div b$

C.  $a^2 = a \cdot a$

$$3ab = 3 \times 6 \times 2 = 36$$

$$\frac{a}{b} = 6 \div 2 = 3$$

$$a^2 = 6 \times 6 = 36$$

FIND THE VALUE OF EACH EXPRESSION IF  $x = 5$ .

1.  $2 \cdot x + 4$   
14

2.  $10 - 10 \div x$   
8

3.  $x + 3 \cdot x$   
20

4.  $4x + 9$   
29

5.  $17 - \frac{25}{x}$   
12

6.  $x + 7x$   
40

FIND THE VALUE OF EACH EXPRESSION IF  $d = 12$ , and  $k = 3$ .

7.  $d \div k - 2$   
2

8.  $k \cdot 5 + d$   
27

9.  $2d + 6$   
30

10.  $\frac{d}{k} \cdot 7$   
28

11.  $d + d \cdot k$   
48

12.  $3dk - 18$   
90

FIND THE VALUE OF EACH EXPRESSION IF  $c = 2$ ,  $r = 18$ , and  $s = 6$ .

13.  $r \div s \cdot c$   
6

14.  $\frac{r}{c} + \frac{s}{c}$   
12

15.  $s - c + r$   
22

16.  $3cs \div r$   
2

17.  $\frac{2r}{cs} - \frac{r}{s}$   
0

18.  $r + r \div r$   
19

FIND THE VALUE OF EACH EXPRESSION IF  $h = 24$ ,  $v = 8$ , and  $w = 3$ .

19.  $w^3 + 5 - h$   
8

20.  $h \div w \div v$   
1

21.  $\frac{6v}{h} + w$   
5

22.  $v^2 + 6 \div w$   
66

23.  $2vw + h$   
72

24.  $\frac{4hvw}{hvw}$   
4