SUBSTITUTION

NAME:

ADDITION AND SUBTRACTION

HELPFUL EXAMPLES. FIND THE VALUE OF EACH EXPRESSION IF $c = 5$ AND $k = 2$.

A. $c + 10$
$5 + 10$
15

SUBSTITUTE: CHANGE THE "c" TO 5. THEN ADD.

B. $12 - k$
$12 - 2$
10

SUBSTITUTE: CHANGE THE "k" TO 2. THEN SUBTRACT.

C. $c - k$
$5 - 2$
3

SUBSTITUTE: CHANGE THE "c" AND THE "k". THEN SOLVE.

FIND THE VALUE OF EACH EXPRESSION IF $m = 7$.

1. $m + 4$
2. $13 + m$
3. $m + 8$
4. $25 + m$
5. $m - 2$
6. $16 - m$
7. $m - 7$
8. $19 - m$

FIND THE VALUE OF EACH EXPRESSION IF $x = 2$ AND $y = 9$.

9. $x + 5 + y$
10. $10 + x + y$
11. $y + x + 17$
12. $2 + x + y$
13. $y - 3 - x$
14. $21 - x - y$
15. $y - x - 5$
16. $18 - y - x$

FIND THE VALUE OF EACH EXPRESSION IF $g = 11$ AND $t = 15$.

17. $g - 10 + t$
18. $8 + g - t$
19. $t - 13 + g$
20. $t + g - 11$
21. $19 + t - g$
22. $17 - t + g$
23. $g + t - 25$
24. $g - 6 + t$

FIND THE VALUE OF EACH EXPRESSION IF $a = 3$, $b = 18$, $c = 5$.

25. $a + b + c$
26. $c + 8 - a + b$
27. $20 - b + c - a$
28. $b - c + a$
29. $b + 4 - c + a$
30. $13 + c - b + a$
31. $b - c - a + 9$
32. $b + a - c$

SUBSTITUTION

NAME:

MULTIPLICATION AND DIVISION

HELPFUL EXAMPLES. FIND THE VALUE OF EACH EXPRESSION IF *s* = 5 AND *r* = 2.

A. $3rs = 3 \times 2 \times 5 = 3 \cdot 2 \cdot 5 = 30$

$3rs$ IS THE SAME AS $3 \times r \times s$ OR $3 \times 2 \times 5$.

B. $\frac{24}{r} = \frac{24}{2} = 24 \div 2 = 12$

$\frac{24}{r}$ THIS MEANS 24 DIVIDED BY **r** OR 24 DIVIDED BY 2.

FIND THE VALUE OF EACH EXPRESSION IF *k* = 8.

1. $3 \times k = 3 \cdot k$
2. $k \div 2$
3. $32 \div k$
4. $k \cdot 5$
5. $4 \times k = 4k$
6. $k \div 4 = \frac{k}{4}$
7. $48 \div k = \frac{48}{k}$
8. $k \cdot 2 = 2k$

FIND THE VALUE OF EACH EXPRESSION IF *d* = 2 AND *n* = 10

9. $n \div d \div 5$
10. $2 \cdot d \cdot n = 2dn$
11. $5dn$
12. $20 \div d \div n$
13. $\frac{n}{5} \cdot d$
14. $40 \div n \div d$
15. $6 \cdot \frac{n}{d}$
16. $4d \cdot 7$

FIND THE VALUE OF EACH EXPRESSION IF *t* = 3 AND *v* = 21

9. $v \div t \cdot 2$
10. $2tv$
11. $5t \cdot 4$
12. $7 \cdot t \div v$
13. $\frac{2v}{6} = 2v \div 6$
14. $\frac{8t}{4}$
15. $t^2 = t \cdot t$
16. $6 \cdot \frac{v}{t}$

FIND THE VALUE OF EACH EXPRESSION IF *f* = 2, *h* = 12, *w* = 4.

25. fhw
26. $\frac{fh}{w}$
27. $\frac{h}{f} \cdot \frac{w}{f}$
28. $\frac{2h}{fw}$
29. $w^3 = w \cdot w \cdot w$
30. $3h \div 2f$
31. $5f \cdot 4w$
32. $\frac{2fhw}{fhw}$