SUBSTITUTION

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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. $25 + m$
11	20	15	32
5. $m - 2$	6. $16 - m$	7. $m - 7$	8. $19 - m$
5	9	0	12

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. $2 + x + y$
16	21	28	13
13. $y - 3 - x$	14. $21 - x - y$	15. $y - x - 5$	16. $18 - y - x$
4	10	2	7

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. $t + g - 11$
16	4	13	15
21. $19 + t - g$	22. $17 - t + g$	23. $g + t - 25$	24. $g - 6 + t$
23	13	1	20

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. $b - c + a$
26	28	4	16
29. $b + 4 - c + a$	30. $13 + c - b + a$	31. $b - c - a + 9$	32. $b + a - c$
20	3	19	16

SUBSTITUTION

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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. $k \cdot 5$
24	4	4	40
5. $4 \times k = 4k$	6. $k \div 4 = \frac{k}{4}$	7. $48 \div k = \frac{48}{k}$	8. $k \cdot 2 = 2k$
32	2	6	16

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. $20 \div d \div n$
1	40	100	1
13. $\frac{n}{5} \cdot d$	14. $40 \div n \div d$	15. $6 \cdot \frac{n}{d}$	16. $4d \cdot 7$
4	2	30	56

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. $7 \cdot t \div v$
14	126	60	1
13. $\frac{2v}{6} = 2v \div 6$	14. $\frac{8t}{4}$	15. $t^2 = t \cdot t$	16. $6 \cdot \frac{v}{t}$
7	6	9	42

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. $\frac{2h}{fw}$
96	6	12	3
29. $w^3 = w \cdot w \cdot w$	30. $3h \div 2f$	31. $5f \cdot 4w$	32. $\frac{2fhw}{fhw}$
64	9	160	2