Name _____ Class _____ Date _____

Practice 1-6

Multiplying and Dividing Real Numbers

Simplify each expression.

1. $(-2)(8)$
2. $(-6)(-9)$
3. $(-3)^4$
4. -2^5
5. $(6)(-8)$
6. $(-14)^2$
7. $2(-4)(-6)$
8. $-30 \div (-5)$
9. $\frac{-52}{-13}$
10. $(-8)(5)(-3)$
11. -7^2
12. -3^5
13. $\frac{-68}{17}$
14. $\frac{(-4)(-13)}{-26}$
15. $\frac{225}{(-3)(-5)}$

Evaluate each expression.

16. x^3 for $x = -5$
17. $s^2t \div 10$ for $s = -2$ and $t = 10$
18. $-2m + 4n^2$ for $m = -6$ and $n = -5$
19. $\frac{v}{w}$ for $v = \frac{2}{5}$ and $w = -\frac{1}{2}$
20. $-cd^2$ for $c = 2$ and $d = -4$
21. $(x + 4)^2$ for $x = -11$
22. $\left(\frac{a}{b}\right)^2 + b^3$ for $a = 24$ and $b = -6$
23. $4p^2 + 7q^3$ for $p = -3$ and $q = -2$
24. $(e + f)^4$ for $e = -3$ and $f = 7$
25. $5f^2 - z^2$ for $f = -1$ and $z = -4$

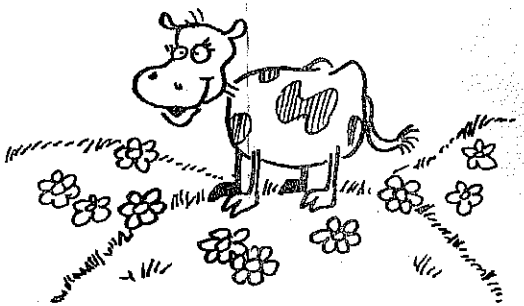
Simplify each expression.

26. $2^4 - 3^2 + 5^2$
27. $(-8)^2 - 4^3$
28. $32 \div (-7 + 5)^3$
29. $\frac{3}{4} \div \left(-\frac{3}{7}\right)$
30. $18 + 4^2 \div (-8)$
31. $26 \div [4 - (-9)]$
32. $4^3 - (2 - 5)^3$
33. $-(-4)^3$
34. $(-8)(-5)(-3)$
35. $(-3)^2 - 4^2$
36. $\frac{-45}{-15}$
37. $(-2)^6$
38. $\frac{-90}{6}$
39. $\frac{-15}{(7 - 4)}$
40. $\frac{195}{-13}$

Evaluate each expression.

41. $(a + b)^2$ for $a = 6$ and $b = -8$
42. $d^3 \div e$ for $d = -6$ and $e = -3$
43. $(m + 5n)^3$ for $m = 2$ and $n = -1$
44. $j^5 - 5k$ for $j = -4$ and $k = -1$
45. $xy + z$ for $x = -4, y = 3$, and $z = -3$
46. $4s \div (-3t)$ for $s = -6$ and $t = -2$
47. $\frac{r^3}{s}$ for $r = -6$ and $s = -2$
48. $\frac{-h^5}{-4}$ for $h = 4$

Why Was the Little Cow Standing Alone In a Big Field of Beautiful Flowers?



Write the letter of each exercise in the box containing the answer.

Set 1. Find the difference.

(H) 3 − 8
(E) −7 − 2
(R) 5 − (−1)
(A) 10 − 3
(O) −4 − (−9)
(H) 1 − 16
(D) −6 − (−2)
(E) 12 − (−12)
(M) −3 − (−7)
(H) −30 − 20
(R) 20 − 30
(T) 30 − 20

Set 2. Find the difference.

(E) −11 − (−4)
(D) −6 − 2
(R) −5 − (−25)
(O) 22 − (−9)
(T) 3 − 14
(E) −7 − (−1)
(A) 8 − (−13)
(O) 72 − 60
(T) −100 − (−99)
(B) −4 − 10
(H) −3 − (−12)
(L) 50 − 50

Set 1 answers:

−15	−9	−10	−18	4	5	10	−5	24	6	−13	−50	7	−4	−60

Set 2 answers:

−1	31	0	−8	15	9	−6	20	−2	−11	12	3	−14	−7	11	21

Set 3. Simplify.

(T) $4x - 7x$
(A) $-5x - 6x$
(E) $10x - x$
(B) $3x - (-2x)$
(D) $-9x - (-4x)$
(O) $-8x - 8x$
(E) $18x - 24x$
(T) $-x - (-15x)$
(C) $9k - 5 - 2k$
(E) $7k - (-3k) + 8$
(U) $-15k - k - 4$
(R) $-1 + 2k - 5k$
(N) $10k + 7 - 3k - 11$
(S) $-k - 16 + 4k - 9$
(H) $8 + 12k - 8k - 5k$
(N) $-9 - 6k + 9 - (-2k)$

Set 3 answers:

$3k - 25$	$7k - 5$	$9x$	$-4k$	$-6x$	$7k - 2$	$5x$	$-16k - 4$	$-3x$	$16x$	$7k - 4$	$-16x$	$14x$	$-3k + 8$	$-11x$	$-8x$	$-k + 8$	$10k + 8$	$-3k - 1$	$-5x$

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