Name _____ Date _____

2-7 Study Guide

Multiplying Integers

The product of two positive integers is positive.

Examples

$k = 4(9)$	$m = 6(7)(2)$	$j = 5(3)(5)$
$k = 36$	$m = 42(2)$	$j = 15(5)$
	$m = 84$	$j = 75$

The product of two negative integers is positive.

Examples

$h = (-7)(-5)$	$v = (-9)^2$	$z = (-25)(-7)$
$h = 35$	$v = -9(-9)$	$z = 175$
	$v = 81$	

The product of a positive integer and a negative integer is negative.

Examples

$c = (-20)(8)$	$g = (70)(-3)(2)$	$y = (-6)(5)^2$
$c = -160$	$g = -210(2)$	$y = (-6)25$
	$g = -420$	$y = -150$

Solve each equation.

1. $z = 8(9)$
2. $t = -4(8)$
3. $b = 4(-5)$
4. $-5(-5) = h$
5. $-40(6) = n$
6. $20(-9) = y$
7. $2(-5)(-8) = h$
8. $g = -6(-3)(-2)$
9. $w = -5(10)(-4)$
10. $t = (-20)^2$
11. $-10(9)^2 = p$
12. $r = (5)^2 \cdot (-10)^2$

Evaluate each expression if $q = -4$, $r = -8$, and $s = 10$.

13. $2qr$
14. $-10sq$
15. $-8s^2$
16. qrs
17. $-3sr$
18. $5r^2$

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2-7 Practice

Multiplying Integers

Solve each equation.

1. $(-3)(-6) = x$
2. $5(-4) = m$
3. $p = 6(8)$
4. $a = 9(-5)$
5. $h = 7(-15)$
6. $n = (-7)(-12)$
7. $e = (-16)(-4)$
8. $(-12)(3) = j$
9. $r = -14(-8)$
10. $g = 14(36)$
11. $k = -11(-11)$
12. $s = -16(-21)$
13. $b = -16(9)$
14. $-14(-12) = k$
15. $t = -18(0)$
16. $-21(-8) = d$
17. $q = -26(7)$
18. $u = -33(-9)$
19. $r = (-2)(8)(-4)$
20. $s = (4)(0)(9)$
21. $(-3)(-4)(-5) = z$
22. $c = (-2)(8)(-90)$
23. $m = (-18)^2$
24. $8(3)(16) = w$
25. $f = (-2)(8)(-5)^2$
26. $p = (4)(-11)(3)$
27. $x = (4)^2 \cdot (-2)^2$

Evaluate each expression if a = −2, b = −5, and c = 8.

28. $6ab$
29. $-4bc$
30. bc^2