

Pg 81; 1-5; 13-33 (0): pg. 82, 37-49 (0)

1) B 2) 0 3) A 4) C (41) 10

5) $-5+9=4$ (43) 0

13) 7 15) C 17) B (45) 5

19) -6 21) -11 23) -4 (47) 4

25) 6 27) 7 29) 11 (49) $-2\frac{4}{7}$

31) 3 33) -31

(37) commutative property

(39) property of opposites

Pg. 89-90; 15-53 (0)

15) 9 31) -1 45) $-6.5, -7.5, -8.5, -9.5$

17) -11 33) 31 47) $-2\frac{1}{2}, -1\frac{1}{2}, -\frac{1}{2}, \frac{1}{2}$

19) 39 35) -43 49) $-x, -7$

21) 36 37) 10.2 51) $9, -28x$

23) 9.2 39) 1 53) $a, -5$

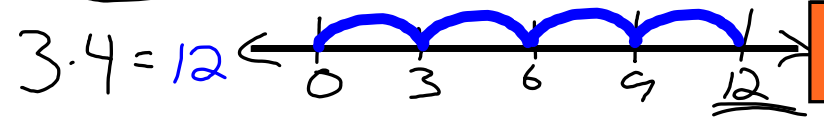
25) -1.2 41) $1\frac{1}{10}$ 43) 14, 13, 12, 11

27) 3 49) $-x, -7$

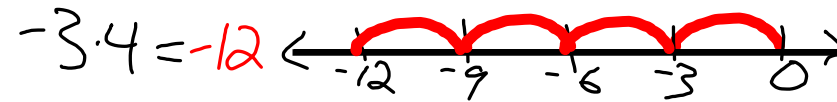
29) $-4\frac{1}{2}$ 53) $a, -5$

2.5. Multiplying
Real Numbers

Sept. 27, 2006



$3 \cdot 4 \cdot 5 = 60$



$-3 \cdot -4 = 12$

$-(- (3 \cdot 4))$ ↑

$-3 \cdot -4 \cdot 2 = \underline{\underline{-24}}$

The Rule

- A product is Negative, if it has an odd Number of Negative factors.
- A product is Positive, if it has an even Number of Negative factors.

$$\text{ex1)} = 4(5) = \underline{\underline{-20}}$$

$$\text{ex2)} -2(5)(-3) = \underline{\underline{30}}$$

$$\text{ex3)} -10(-2)(-4) = \underline{\underline{-8}}$$

$$\begin{aligned} \text{ex4)} (-2)^4 &= (-2)(-2)(-2)(-2) \\ &= \underline{\underline{16}} \end{aligned}$$

Products w/ Variable Factors

Simplify : No Grouping Symbols

$$\text{ex 1)} \quad -2(-x) = \underline{\underline{2x}}$$

$$\text{ex 2)} \quad 4(-n)(-n)(-n) = \underline{\underline{-4n^3}}$$

$$\text{ex 3)} \quad -1(-a)^2 = -1(-a)(-a) = \underline{\underline{-1a^2}}$$

$$\text{ex 4)} \quad -7(-b)^3 = -7(-b)(-b)(-b) = \underline{\underline{7b^3}}$$

ex5

$$2x \cdot -1(-a) = \underline{\underline{2ax}}$$

ex6

$$-4(x)^2 \cdot 5x \cdot 2x = \underline{\underline{-40x^4}}$$

Evaluate

$$-4(-1)(-x) \text{ when } x = \underline{-5}$$

1st Way:

$$-4(-1)(-x) = -4(-1)(-(-5)) = \underline{\underline{20}}$$

2nd way

$$-4(-1)(-x) = -4x = -4(-5) = \underline{\underline{20}}$$

O.T.L.

① pg 94: Blue Box: "Prop. of Multi"
in your N.B.

② Pg 96-97: 17-45(0), 55

*for #55 you may need
to use ex 4 on pg 95 for help.