

5-Minute Check

Transparency 2-4

(for Lesson 2-3)

Find each product.

1. $-12(9)$

2. $\left(2\frac{1}{3}\right)\left(1\frac{5}{7}\right)$

BE-1A | MONDAY
10-23-06

Simplify each expression.

3. $-5(5a - 1) + 2a$

4. $4b(-3c) + (4x)(7y)$

5. What is the value of $-8c^2d$ if $c = -1.5$ and $d = 0.3$?

6. **Standardized Test Practice** If pairs of numbers chosen from the set $\{-2, -1, 0, 1, 2\}$ are multiplied by each other, how many products will be positive?

(A) 9

(B) 16

(C) 8

(D) 4

ANSWERS

1. -108

2. 4

3. $-23a + 5$

4. $-12bc + (-28xy)$

5. -5.4

6. C

Ch. 2-4 Dividing Rational Numbers ①

SPDN \Rightarrow Same signs POSITIVE

Different signs NEGATIVE

$$\frac{(+)}{(+)} = +$$

$$\frac{(-)}{(-)} = +$$

$$\frac{(-)}{(+)} = -$$

$$\frac{(+)}{(-)} = -$$

EX 1
pg 84

Ⓐ $-77 \div 11$

Ⓑ $\frac{-51}{-3}$

Simplify top and bottom "groups"
BEFORE DIVIDING

EX 2
pg 84

$$\frac{-3(-12+8)}{7+(-5)} = \frac{-3(-4)}{2}$$

$$= \frac{12}{2} = \boxed{6}$$

Ex) $-5.1 \div 3$

Ex 3
Pg 85

$$-\frac{2}{5} \div \frac{1}{4}$$

$$-\frac{2}{5} \cdot \frac{4}{1} = \boxed{-\frac{8}{5}}$$

To simplify $\frac{24-6a}{3}$

DIVIDE EACH term in the top by 3.
WATCH SPDN!

$$\frac{24-6a}{3}$$

$$= \frac{24}{3} - \frac{6a}{3}$$

$$= \boxed{8-2a}$$

Ex 5 Pg 85

(8.)

SUBSTITUTE USING... PARENTHESES!

EX 6 PG 85

$$a = -7.8 \quad b = 5.2 \quad c = -3$$

$$\text{Find } \frac{ab}{c^2} = \frac{(-7.8)(5.2)}{(-3)^2}$$

$$\begin{array}{r} 7.8 \\ \times 5.2 \\ \hline 156 \\ 390 \\ \hline 4056 \end{array}$$

$$= \frac{(-7.8)(5.2)}{9}$$

$$= \frac{-40.56}{9}$$

$$\approx -4.51$$

$$\begin{array}{r} 04.506 \\ 9 \overline{) 40.560} \\ \underline{36} \\ 45 \\ \underline{45} \\ 060 \\ \underline{54} \end{array}$$

④
• SHOW me your MISTAKES on Qu. 1

• WORK PROBLEMS: Page 86

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• Read Ch 2-4
