Problem 1

What is the value?

$$(-3)(2) + 4 + (-16) \div 4 + 3$$

1. First, multiply and divide

$$(-3)(2) + 4 + (-16) \div 4 + 3$$

from left to right.

$$-6 + 4 + (-4) + 3$$

2. Then add and subtract

$$-6 + 4 + (-4) + 3$$

from left to right.

$$-6 + 3 = -3$$

Problem 2

To solve the problem, write a math expression.

Manny bought 8 gallons of gas. He paid \$4 for each gallon. What is the change in the amount of money Manny has?

Manny paid \$4 for each gallon, so the 4 is negative.

Manny bought 8 gallons. So, multiply by the cost of one gallon by 8.

$$8(-4) = -32$$

Manny has \$32 less now.

Find the value.

1.
$$(-4)(-5) + 19$$

$$2. (-9)(4) + 31$$

3.
$$(-36) \div 9 + 4 + (-2)(-3)$$

4. a. Solve the expression and state what that value represents.

$$3(-20) + 5$$

Week 3: 4/13-17 Part 2: Fraction Review

To multiply fractions and mixed numbers:

Step 1: Write any mixed numbers as improper fractions.

Step 2: Multiply the numerators.

Step 3: Multiply the denominators.

Step 4: Write the answer in simplest form.

Remember, positive times negative equals

Multiply:
$$\frac{4}{9} \square \frac{8}{3}$$

$$\frac{4}{9} \square \frac{3}{8} = \frac{4 \square 3}{9 \square 8}$$
Divide numerator and denominator by 12, the GCF.
$$= \frac{12}{72}$$

$$= \frac{1}{1}$$

$$=\frac{1}{20}$$
$$=-11\frac{1}{4}$$

Use the models to solve the problems.

- 1.One cup of dog food weighs $1\frac{4}{5}$ ounces. A police dog eats $6\frac{1}{3}$ cups of food a day. How many ounces of food does the dog eat each day?
- 2.A painter spends 3 hours working on a painting. A sculptor spends $2\frac{2}{3}$ as long working on a sculpture. How long does the sculptor work?
- 3.A meteorite found in the United States weighs $\frac{7}{10}$ as much as one found in Mongolia. The meteorite found in Mongolia weighs 22 tons. How much does the one found in the United States weigh?
- 4.A chicken salad recipe calls for $\frac{1}{8}$ pound of chicken per serving. How many pounds of chicken are needed to make $8\frac{1}{2}$ servings?

Rational Number Packet Review

Week 3: 4/13-17 Part 3: Decimal Rev

Addition

- > Find the decimal
- > Line up the decimals
- > Fill in empty spots with zero
- > Bring down the decimal in your answer

EXAMPLE Rewritten with deci-

10.5 + 11.74 10.50

Subtraction

- > Find the decimal
- > Line up the decimals
- > Fill in empty spots with zero
- > Bring down the decimal in your answer.

EXAMPLE

12.7 - 9.23

Rewritten with decimais lined up...

Rules of Decimals

Multiplication

- > The number with most digits goes on top
- > Decimals do not have to line up
- > Multiply like normal
- > Count how many places in first number the decimal is moved over
- > Count how many places in 2nd number the decimal is moved over
- > This is how many places you move the decimal in your answer

EXAMPLE

24020

30025 < 5 DECIMAL PLACES

- > Divisor can not have a decimal.
- > Move the divisor decimal so it is a whole
- > Move the same amount of places in dividend
- > Place a decimal straight up where you write your answer, rewrite problem
- > Divide like normal

EXAMPLE

DIVISOR > 03/141

Addition		Subtraction	
8.08 + 2.78	18.75 - 9.23	10.00 - 7.28	
23.50 + 32.74	32.70 - 19.23	9.75 - 5.25	
Practice Decimal Operations			
Multiplication Divis		sion	
1.58 × 1.78	.2)14.8	.5)35.0	
23.50 <u>X 32.74</u>	.25)30.0	.7)42.0	
	23.50 + 32.74 Practice Operation 1.58 × 1.78	8.08 + 2.78 23.50 - 32.70 - 19.23 Practice Decimal Operations 1.58	

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