

Differentiated Learning

Grade Level: 5

Topic: Adding and Subtracting Decimals

Domain Covered:

Number and Operations in Base 10

Clusters: (write out in words)

Understand adding and subtracting with decimals

Content Standards: (write out in words)

5.NBT.4: Use place value understanding to round decimals to any place

5.NBT.7: Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction, relate the strategy to a written method and explain the reasoning used.

Learning Targets for this Unit

***Found in teacher's manual under objectives for each topic lesson**

Practice Standards: (Delete the practices that will NOT be used)

- **Make sense of problems and persevere in solving them.**
- **Reason abstractly and quantitatively.**
- **Construct viable arguments and critique the reasoning of others.**
- **Model with mathematics.**
- **Use appropriate tools strategically.**
- **Attend to precision.**
- **Look for and make use of structure.**
- **Look for and express regularity in repeated reasoning**

Differentiated Activities

Directions: Use your Teacher Manual for your assigned Topic to complete this page and create student materials

Advanced/Gifted:

pg. -----

Quick Synopsis of Activity & Materials Needed-

Math Project

pg. -----

Quick Synopsis of Activity & Materials Needed-

pg. 27E

Quick Synopsis of Activity & Materials Needed-

*Computer Access

*Attached Worksheet

*Students find the area of four parks that are part of the National Park System. Then have them subtract each measure from 84,400,000.

Math and Literature:

pg. 7- (Guided Math Problem Solving Manuel) Pg. 4-5 Destination Hawaii

Quick Synopsis of Activity & Materials Needed-

***Math Library Master pg. 8**

***Destination Hawaii**

Students read “Destination Hawaii” and solve the problems on page 8 in Guided Problem Solving Teachers Guide. Topics covered are estimation, rounding and finding mean.

Name: _____

Math Project:

Topic 2

There are approximately 84.4 million acres of land in the National Park System. The largest National Park is the Wrangell-St. Elias National Park and Preserve in Alaska which encompasses 13,200,000 acres. The smallest National Park is the Thaddeus Kosciuszko National Memorial in Pennsylvania which measures two-tenths of an acre.

Directions: Find the area of each of the four parks listed below. Then subtract each measure from 84,400,000.

Glacier National Park, Montana = _____

Yellowstone National Park, Wyoming= _____

Acadia National Park, Maine= _____

Shenandoah National Park, Virginia= _____

1.)

2.)

3.)

4.)

Estimating Sums and Differences

Careers Companies raise money to develop new products by inviting the public to lend them money through buying stock in the company. In return, the buyer has a chance to make a profit. The smallest amount of stock is called a share. The stock information table shows the cost of each share.

Company	Price
Brands, Inc.	\$19 $\frac{7}{8}$
Curtis-Wells & Co.	\$14 $\frac{1}{4}$
Southern Continental	\$23 $\frac{1}{8}$
Brendam Products	\$17 $\frac{5}{8}$

1. You have \$70 to spend on stocks. About how many shares of each of the above stocks could you buy?

2. What is the approximate difference in price between the most expensive stock, and the least expensive stock?

3. What is the approximate total value of one share of all four stocks?

Maria was studying rocks. Her collection contained $3\frac{2}{3}$ lb iron ore, $2\frac{1}{3}$ lb copper ore, and $1\frac{1}{2}$ lb petrified wood.

Estimate the sums or differences.

4. About how much heavier is Maria's iron ore than her petrified wood?
5. About how much does her whole collection weigh?
6. Maria just found another box containing $2\frac{3}{8}$ lb copper. Now about how much copper does she have?
7. With the additional ore she found, about how much does her collection weigh?

Name _____

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Brendam Products	$\$17\frac{5}{8}$

1. You have \$70 to spend on stocks. About how many shares of each of the above stocks could you buy?

**3 shares each of Brands, Inc., Southern Continental, or
Brendam Products or 4 shares of Curtis-Wells & Co.**

2. What is the approximate difference in price between the most expensive stock, and the least expensive stock?

\$9

3. What is the approximate total value of one share of all four stocks?

\$75

Maria was studying rocks. Her collection contained $3\frac{2}{3}$ lb iron ore, $2\frac{1}{3}$ lb copper ore, and $1\frac{1}{2}$ lb petrified wood.

Estimate the sums or differences.

4. About how much heavier is Maria's iron ore than her petrified wood?

2–3 lb

5. About how much does her whole collection weigh?

7–8 lb

6. Maria just found another box containing $2\frac{3}{8}$ lb copper. Now about how much copper does she have?

4–5 lb

7. With the additional ore she found, about how much does her collection weigh?

9–10 lb