

MANEUVERING THE MIDDLE

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I hope that you find this resource helpful in your classroom. Please feel free to contact me with any questions as you implement this in your class.

[Maneuvering the Middle](#) is an education blog with valuable tips for lesson planning, teacher organization, and math concepts in the middle school classroom.

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MANEUVERING THE MIDDLE

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RATIONAL NUMBER OPERATIONS

SCAVENGER HUNT

Students will be able to solve word problems involving rational number operations.



7.NS.3 Solve real-world and mathematical problems involving the four operations with rational numbers.



7.3A Add, subtract, multiply, and divide rational numbers fluently.

7.3B Apply and extend previous understandings of operations to solve problems using addition, subtraction, multiplication, and division of rational numbers.

Ideas for Implementation: Math scavenger hunts are an awesome way to get students out of their seats and working. They're also super easy to prep and facilitate for the teacher! Students love being able to get up and move around the classroom. Students are more engaged and attentive with this activity than with a worksheet.

Directions:

1. Print each problem page on card stock and place in a page protector (longer lasting).
2. Post the pages around the room/hall/library.
3. Students receive a recording sheet where they show their work in the appropriate box.
4. Students begin at any letter and work that problem. They then look for the corresponding solution and go to that problem.
5. Students continue until they end up at the location at which they started.

Teacher Tips:

1. If you have a class set of clip boards or dry erase boards, it will be easier for students to write.
2. This activity works best in pairs or in groups of three so that students can discuss with one another.

A

-79.6

The debate team is hosting a tournament. They received \$320.00 in tournament registration fees and raised \$126.76 in concessions. The team would like to budget this money over the 12 month calendar year. How much money will be available each month?

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B

$3\frac{1}{24}$

A coffee shop served 24 people before 7:00am. Two-thirds had regular coffee, one-eighth had decaf, and the remaining ordered a specialty coffee. How many customers ordered a specialty coffee?

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C**-45.7**

Henry purchases granola in the bulk section of the grocery store. It is priced \$2.60 per pound. He purchases 4.5 pounds and receives \$3.30 in change. How much cash did he give the cashier?

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d**37.23**

What is the area of the rectangle?



$2\frac{1}{5}$ yards

$3\frac{1}{8}$ yards

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e

15

Mr. Hoskins uses an automatic bill pay to pay his bills each month. The cable bill deducts \$66.45 every month. How much will the cable bill deductions total for the year?

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f

 $6\frac{7}{8}$

A scuba diver is $4\frac{2}{3}$ feet below the surface of the water. She then dives another $2\frac{1}{2}$ feet. How far below the surface of the water is the scuba diver?

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9

5

A submarine drops 1194 feet below sea level in 15 minutes. What is the rate of descent of the submarine?

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H

$7\frac{1}{6}$

A swimming pool drains 365.6 gallons of water over a period of 8 hours. What is the rate of change in the swimming pool?

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I 273.1

Jason is building a bench with his dad. He begins with a 8 foot board. Then, he cuts off a piece that measures $3\frac{5}{8}$ feet and another that measures $1\frac{1}{3}$ feet. What is the length of the remaining board?

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j -797.40

A contestant on The Biggest Loser lost 78.8 pounds over a period of two months. At the end of the two month period, the contestant weighed 194.3 pounds. How much did the contestant weigh when the show began?

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RATIONAL NUMBER OPERATIONS

Show all your work in the appropriate box below.

A

B

C

D

E

F

G

H

I

J

RATIONAL NUMBER OPERATIONS

Show all your work in the appropriate box below.

A

\$37.23

B

5 specialty coffees

C

\$15.00

D

6 $\frac{7}{8}$ square yards

E

-\$797.40

F

7 1/6 feet

G

-79.6 feet/min

H

-45.7 gallons/hour

I

3 1/24 feet

J

273.1 pounds