MasterMath

Rational Numbers

Name _____

Date _____

1. **Convert these rational numbers to decimals.**

rational number	decimal equivalent
5/8	.625
3/5	.6
-2 1/2	-2.5
1/3	.333
6 1/8	6.125

rational number	decimal equivalent
-4 1/5	-4.2
-2/3	-.667
8/10	.8
-6/7	-.857
2 4/5	2.8

rational number	decimal equivalent
15/22	.682
-17/40	-.425
7/8	.875
16/17	.941
-1/7	-.143

2. **Write these decimals as a fraction or mixed number in simplest form.**

decimal	fraction or mixed number
.5	1/2
.65	13/20
1.45	1 9/20
-2.6	-2 3/5
-15.3	-15 3/10

decimal	fraction or mixed number
2.4	2 2/5
-.123	-123/1000
-2.456	-2 57/125
-3.2	-3 1/5
2.55	2 11/20

decimal	fraction or mixed number
1.42	1 21/50
2.66	2 33/50
-3.41	-341/100
-.63	-63/100
.32	8/25

3. **Joe had 5 hits in 13 times at bat. Joshua had 16 hits in 40 times at bat. Batting average equals number of hits divided by number of times at bat. Who had the higher batting average?**

Joshua

4. **Your recipe for cookies requires 2 5/8 cups of flour. You want to make a double recipe, and have 5 1/4 cups of flour. Do you have enough flour?**

yes

5. **You and your friends are doing better in track, as shown by the changes in your times in the 100 meter dash. The table shows the improvement in each of your last races over the previous race. What was the mean improvement?**

Friend	Improvement
Jane	-2.15
Mary	-1.22
Estel	-.75
Sophia	-1.68

-1.45

6. **How many .75 pound bags of sugar can be made from a 6 pound bag of sugar?**

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