

Bright Futures Academy**Middle School Math Remote Learning Assignments/Expectations****Dennard**

It is very important that you utilize Jupiter Ed and Class Dojo to communicate any concerns. I will be using Class Dojo for incentives to keep the students motivated and engaged:)

1. **I-Ready** - 45-90 minutes each week. Work on Teacher Assigned Lessons. If you complete those lessons then work on your Pathway Assignments determined by your Diagnostic. Parents, reach out to me about your child's diagnostic results.
2. **Khan Academy** - At least 60 minutes each day. Assignments are listed in order. Make sure the practice lessons are completed. If you complete the assigned lessons, then work on the Grade Level Course Mastery Program.
3. **IXL.COM** (optional)- At least 60 minutes per week. Students can select the lessons they would like to work on. I have made recommendations. Check Jupiter Ed or Class Dojo for your username and password.

It is my recommendation that each student keep a journal/notebook for ALL online lessons:)

4. **Class Dojo** - Each Grade Level will receive 1 Portfolio Assignment each week to respond to. It may involve MathAntics, AnthonyMashUp, Khan Academy, or Math Is Fun activities. It may also include work from the assigned packets.
5. **Jupiter Ed** - Each Grade Level will receive 1 Forum Assignment to respond to. It will include a video to watch and respond to.
6. **Quizizz** - I will be online with quizizz.com @ 1 pm.
 - a. Tuesdays - 6th Grade
 - b. Wednesdays - 7th Grade
 - c. Thursdays - 8th Grade
7. **Kahoot** - I will assign 1 Kahoot Activity each week. I will send the link. Log in to kahoot.com and use the code. It will be due by Friday
8. **GimKit** - I will assign 1 GimKit Activity each week. I will send the link. Log in to gimkit.com and use the code. It will be due by Friday.

Packets will be available online @ <https://www.brightfuturesacademy.com/>

Grade Level Packets:

6th Grade - Week 1 - Fraction Operations Review.

7th Grade - Week 1 - Expressions and Equations Review.

8th Grade - Week 1 - Rational and Irrational Numbers Review.

I have provided a cheat sheet for you to use:)

Lesson 1 Problem-Solving Practice

Terminating and Repeating Decimals

1. BOYS AND GIRLS There were 6 girls and 18 boys in Mrs. Johnson's math class. Write the number of girls as a fraction of the number of boys. Then write the fraction as a repeating decimal.

2. CATS In a neighborhood of 72 families, 18 families own one or more cats. Write the number of families who own one or more cats as a fraction. Then write the fraction as a decimal.

3. CELLULAR PHONES In Italy, about 74 of every 100 people use cellular telephones. Write the fraction of cellular phone users in Italy. Then write the fraction as a decimal.

4. FRUITS Ms. Rockwell surveyed her class and found that 12 out of the 30 students chose peaches as their favorite fruit. Write the number of students who chose peaches as a fraction in simplest form. Then write the fraction as a decimal.

5. TRAVEL Tora took a short trip of 320 miles. He stopped to have lunch after he had driven 120 miles. Write the fraction of the trip he had completed by lunch in simplest form. Then write the fraction as a decimal.

6. VOTING In a recent school election, 208 of the 325 freshmen voted in their class election. Write the fraction of freshmen who voted. Then write the fraction as a decimal.

Lesson 2 Problem-Solving Practice

Compare and Order Rational Numbers

<p>1. RAIN The amount of rainfall was measured after a recent storm. The north side of town received $\frac{7}{8}$ inch of rain, and the south side received $\frac{13}{15}$ inch of rain. Which side of town received more rain from the storm?</p>	<p>2. MOVIES Because he sees movies at his local theater so often, Delmar is being offered a discount. He can have either $\frac{1}{3}$ off his next ticket or $\frac{3}{10}$ off his next ticket. Which discount should Delmar choose? Explain.</p>
<p>3. TRACK Willie runs the 110-meter hurdles in $17\frac{3}{5}$ seconds, and Anier runs it in $17\frac{6}{11}$ seconds. Which runner is faster?</p>	<p>4. FARMING Cassie successfully Harvested $\frac{7}{12}$ of her crop, and Robert successfully harvested $\frac{29}{50}$ of his crop. Which person successfully harvested the larger portion of his or her crop?</p>
<p>5. TRANSPORTATION My-Lien has enough room in her truck to move 3.385 tons of gravel. Her father has asked her to move $3\frac{5}{16}$ tons. Will My-Lien be able to move all of the gravel in only one trip? Explain.</p>	<p>6. WOOD WORKING Kishi has a bolt that is $\frac{5}{8}$ inch wide, and she drilled a hole 0.6 inch wide. Is the hole large enough to fit the bolt? Explain.</p>
<p>7. PIZZA In a recent pizza-eating contest, Alfonso ate $1\frac{3}{8}$ pizzas, Della ate $1\frac{3}{10}$ pizzas, and Jack ate $1\frac{4}{9}$ pizzas. Which person won the contest?</p>	<p>8. STUDYING For a recent algebra exam, Pat studied $1\frac{8}{15}$ hours, Toni studied $1\frac{11}{20}$ hours, and Morgan studied $1\frac{9}{16}$ hours. List the students in order by who studied the most.</p>

Show all work/explanations for each problem on notebook paper

NAME _____ DATE _____ PERIOD _____

Ch. 4 Test

SCORE _____

Write the letter for the correct answer in the blank at the right of each question.

1. What is $\frac{3}{5}$ as a decimal?
 A. 0.06 B. 0.6 C. 0.6 D. 6 1. _____

2. What is $2\frac{4}{9}$ as a decimal?
 F. 2.04 G. 2.4 H. 2.49 I. 0.5 2. _____

3. What is 0.375 as a fraction in simplest form?
 A. $\frac{1}{8}$ B. $\frac{3}{8}$ C. $\frac{5}{16}$ D. $\frac{2}{5}$ 3. _____

4. What is the LCD of $\frac{11}{15}$ and $\frac{5}{6}$?
 F. 90 G. 60 H. 30 I. 3 4. _____

5. Which symbol makes $6\frac{15}{28} \text{ } 6\frac{5}{9}$ a true sentence?
 A. < B. > C. = D. × 5. _____

6. Which symbol makes $-\frac{3}{4} \text{ } -\frac{11}{12}$ a true sentence?
 F. < G. > H. = I. ÷ 6. _____

7. Mario made six batches of cookies. His friends asked him to make an extra batch. He used $15\frac{3}{4}$ cups of sugar and needs another $\frac{5}{8}$ cups for the extra batch. How many cups of sugar will Mario use altogether?

A. $17\frac{1}{4}$ B. $16\frac{3}{8}$ C. $\frac{128}{8}$ D. $15\frac{1}{8}$ 7. _____

For Exercises 8-13, what is the value of each expression in simplest form?

8. $\frac{1}{8} + \left(-\frac{3}{16}\right)$
 F. $\frac{4}{24}$ G. $\frac{5}{16}$ H. $-\frac{5}{16}$ I. $-\frac{1}{16}$ 8. _____

9. $8\frac{2}{7} + 10\frac{4}{7}$
 A. $18\frac{3}{7}$ B. $18\frac{8}{49}$ C. $18\frac{6}{7}$ D. $18\frac{8}{7}$ 9. _____

10. $\frac{2}{21} \times \frac{7}{5}$
 F. $\frac{7}{13}$ G. $\frac{9}{26}$ H. $\frac{3}{35}$ I. $\frac{2}{15}$ 10. _____

Vocabulary Test

SCORE _____

bar notation

rational number

common denominator

repeating decimal

least common denominator (LCD)

terminating decimal

like fractions

unlike fractions

Write whether each sentence is *true* or *false*. If *false*, replace the underlined word or phrase to make a true sentence.

1. To add $\frac{4}{9}$ and $\frac{1}{9}$, first add 4 and 1.

1. _____

2. To multiply fractions, multiply the numerators and add the denominators.

2. _____

3. To subtract like fractions, subtract the numerators.

3. _____

4. To divide $\frac{5}{8}$ by $\frac{1}{4}$, multiply $\frac{5}{8}$ by 4.

4. _____

5. A repeating decimal is a decimal that ends when it reaches a remainder of zero.

5. _____

6. Bar notation is used to indicate that a number pattern repeats indefinitely.

6. _____

7. To multiply mixed numbers, rename mixed numbers using common denominators.

7. _____

8. To add or subtract fractions, rename the fractions using a common denominator.

8. _____

Define each term in your own words.

9. least common denominator

9. _____

10. rational number

10. _____

Show all work/explanations for every problem on notebook paper!

NAME _____ DATE _____ PERIOD _____

Chapter 4 Quiz

Write each fraction or mixed number as a decimal. Use bar notation if the decimal is a repeating decimal.

1. $2\frac{5}{8}$

1. _____

2. $\frac{7}{9}$

2. _____

3. $\frac{3}{4}$

3. _____

Replace each $\frac{a}{b}$ with $<$, $>$, or $=$ to make a true sentence.

4. $\frac{24}{30}$ $\frac{45}{50}$

4. _____

5. $\frac{6}{17}$ $\frac{18}{51}$

5. _____

Add or subtract. Write in simplest form.

6. $\frac{5}{7} + \frac{3}{7}$

6. _____

7. $\frac{7}{12} + \frac{3}{4}$

7. _____

8. $-\frac{3}{5} - \frac{1}{5}$

8. _____

9. $\frac{5}{8} - \frac{3}{16}$

9. _____

10. **HOMEWORK** Honon spent $3\frac{1}{4}$ hours on homework yesterday while Sequoia spent $2\frac{5}{6}$ hours on homework. How much more time did Honon spend on homework than Sequoia?

10. _____

Fractions, Decimals, & Percents

Change a ...	To a ...	To a ...
Fraction	Decimal	Percent
	Divide the numerator by the denominator. Example: $\frac{3}{4}$ would be $3 \div 4 = 0.75$	Change the fraction to a decimal then multiply the decimal by 100. Example: $\frac{3}{4} = 0.75$ Then $0.75 \times 100 = 75\%$
Change a ...	To a ...	To a ...
Decimal	Percent	Fraction
	Multiply the decimal by 100. Example: To change 0.382 to a percent just multiply by 100. $0.382 \times 100 = 38.2\%$	If you can read the decimal properly you can write it as a fraction. Simplify the fraction. Example: 0.875 reads 875 thousandths -- as a fraction that would be $\frac{875}{1000}$ - which reads exactly the same. Now simplify your answer and you are finished $\frac{875}{1000} = \frac{7}{8}$.
Change a ...	To a ...	To a ...
Percent	Decimal	Fraction
	Divide the percent by 100. Example: 75% would be $75 \div 100 = 0.75$ So $75\% = 0.75$	Write the percent as a fraction over 100 then simplify the fraction. Example: 75% would be $\frac{75}{100}$. Simplified $\frac{75}{100} = \frac{3}{4}$

Finding the Percent of a Number

To find the percent of a number -- Multiply the number by the percent written as a decimal or a fraction.

Example: 75% of 40 . $75\% = 0.75$ so this would be $0.75 \times 40 = 30$ OR since $75\% = \frac{75}{100} = \frac{3}{4}$ then $\frac{3}{4} \times 40 = 30$.

Finding the Fraction of a Number

Multiply the number by the fraction or if the fraction can be written as a terminating decimal then you can also multiply by the fraction written as a decimal.

Example: $\frac{3}{4}$ of 28 would be $\frac{3}{4} \times 28 = 21$ OR $0.75 \times 28 = 21$