Grade 4 FUNPACK

TEKS 4.3D: *compare* two fractions with different numerators and different denominators and *represent* the comparison using the symbols >, =, or <.

Activity Directions:

Items Needed: *Fraction Battle* activity, number cubes

1. Copy the activity recording sheet for each partner group. Each pair of students will need 2 number cubes (dice).
2. *Player A* rolls the number cubes and uses the digits to build a fraction. The numerator is the sum of the digits; the denominator is the product of the digits. (Example: *Player A* rolls a 5 and a 3. The numerator is 8 (5 + 3), and the denominator is 15 (5 x 3). *Player A*'s fraction is $\frac{8}{15}$).
3. *Player B* repeats the procedure to determine his/her fraction.
4. Both players record the fractions on the recording sheet, and then compare using the comparison symbols >, <, or =.
5. The player with the greater fraction will earn 5 points for the round. (See below.)
6. Play ten rounds. The winner is the player with the most points.
7. Have students practice questions coded to TEKS 4.3D.

Player A: _____ Player B: _____

Fraction Battle

Directions:

- *Player A* rolls the number cubes and uses the digits to build a fraction. The numerator is the sum of the digits; the denominator is the product of the digits. (Example: *Player A* rolls a 5 and a 3. The numerator is 8 (5 + 3), and the denominator is 15 (5 x 3). *Player A*'s fraction is $\frac{8}{15}$).
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- The player with the greater fraction will earn 5 points for the round.
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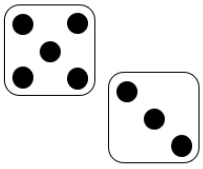

Recording Sheet

Player A		*Compare*	*Player B*	
Points	*Fraction*	< = >	*Fraction*	*Points*
0	$\frac{8}{15}$	<	$\frac{6}{8}$	5
5	$\frac{4}{3}$	>	$\frac{7}{10}$	0
0	$\frac{9}{18}$	<	$\frac{3}{2}$	5

Player A: _____ Player B: _____

Fraction Battle

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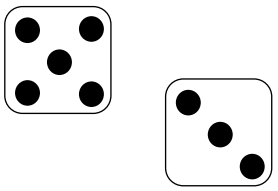


Recording Sheet

Player A		*Compare*	*Player B*	
Points	*Fraction*	< = >	*Fraction*	*Points*
	Player A Total Points		*Player B Total Points*	

Name: _____ Date: _____

TEKS 4.3D: *compare* two fractions with different numerators and different denominators and *represent* the comparison using the symbols >, =, or <.

TEKS 4.3D Mini-Assessment

1. Monica used $\frac{3}{4}$ cups of sugar in a vanilla cupcake mix. She used $\frac{2}{3}$ cups of sugar in a chocolate cupcake mix. Which fraction comparison is true?

Ⓐ $\frac{3}{4} = \frac{2}{3}$

Ⓑ $\frac{2}{3} < \frac{3}{4}$

Ⓒ $\frac{2}{3} > \frac{3}{4}$

Ⓓ None of these

2. Painter Pete used $5\frac{1}{2}$ gallons of white paint and $\frac{11}{2}$ gallons of tan paint. Which comparison is true?

Ⓐ $\frac{11}{2} > 5\frac{1}{2}$

Ⓑ $\frac{11}{2} < 5\frac{1}{2}$

Ⓒ $\frac{11}{2} = 5\frac{1}{2}$

Ⓓ None of these

3. There are 20 students in Clarissa's math class.

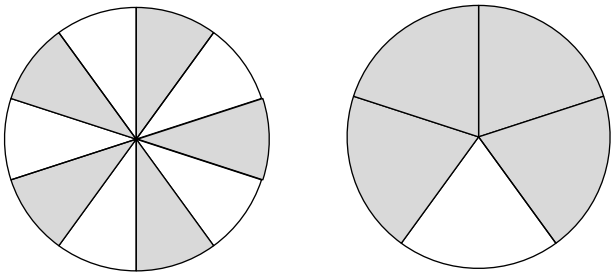
- $\frac{2}{5}$ of the class have black hair.
- $\frac{1}{10}$ of the class has blonde hair.
- $\frac{1}{2}$ of the class has brown hair.

Choose the correct answer from each drop-down menu to complete the statement.

_____ students have black hair than brown hair because _____.

☐ More	☐ $\frac{2}{5} > \frac{1}{2}$
☐ Fewer	☐ $\frac{2}{5} < \frac{1}{2}$

4. The models are shaded to represent two fractions.



Which statement correctly compares these two fractions?

Ⓐ $\frac{5}{10} < \frac{4}{5}$

Ⓑ $\frac{5}{10} = \frac{4}{5}$

Ⓒ $\frac{5}{10} > \frac{4}{5}$

Ⓓ None of these

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5. Which fraction belongs in the ☐ to make this comparison true?

$$\frac{4}{9} > \square$$

Select **TWO** correct answers.

☐ $\frac{1}{2}$

☐ $\frac{1}{3}$

☐ $\frac{1}{4}$

☐ $\frac{4}{8}$

☐ $\frac{4}{7}$

6. The thickness of a piece of lumber measured $\frac{5}{8}$ inch. Which measurement could be less than $\frac{5}{8}$ inch?

Ⓐ $\frac{7}{9}$ inch

Ⓑ $\frac{2}{3}$ inch

Ⓒ $\frac{3}{4}$ inch

Ⓓ $\frac{3}{5}$ inch

7. The chart shows four comparisons.

F	$\frac{3}{12} < \frac{3}{10}$
G	$\frac{3}{12} < \frac{1}{4}$
H	$\frac{3}{12} < \frac{5}{12}$
K	$\frac{3}{12} < \frac{2}{8}$

Which of these comparisons are true?

Ⓐ Only H

Ⓑ Only F and H

Ⓒ Only F, H, and K

Ⓓ None of these

8. Five students are reading the same book. The table shows the fraction of the book each student has finished.

Books Read

Student	Amount Read
Leah	$\frac{14}{21}$
Deepa	$\frac{9}{12}$
Dion	$\frac{5}{6}$
Sarah	$\frac{9}{10}$
Rachel	$\frac{12}{16}$

Which of these students have read more than $\frac{3}{4}$ of the book?

Select TWO correct answers.

☐ Leah

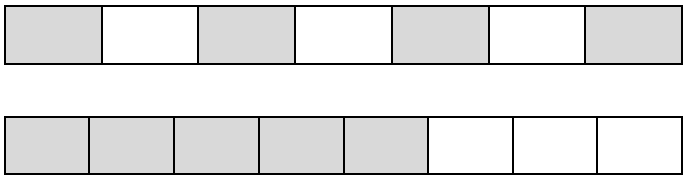
☐ Deepa

☐ Dion

☐ Sarah

☐ Rachel

9. The models are shaded to represent two fractions.



Write the fraction values in the comparison statement to make the comparison true.

$\square > \square$

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10. The table below shows the distance, in miles, four students biked to get to school.

Distance to School

Student	Distance Biked (miles)
Lynn	$\frac{2}{4}$
Jenn	$\frac{4}{10}$
Pam	$\frac{3}{5}$
Sam	$\frac{3}{8}$

Choose the correct answer from each drop-down menu to complete the statement.

The distance Jenn biked is _____ than the distance Lynn biked because _____.

- ☐ less
- ☐ greater

- ☐ $\frac{4}{10} > \frac{2}{4}$
- ☐ $\frac{4}{10} < \frac{2}{4}$