

## Helping With Math

## Comparing Like Fractions



GRADE 3
In comparing like fractions, it is always easy to compare two or more fractions if their denominators are of the same number.


## Mathematical Symbols



Below are the symbols used in comparing like fractions.

| SYMBOL | MEANING | EXAMPLE |
| :---: | :--- | :---: | :---: |
| $\mathbf{Z}$ | Equal sign is <br> used to show that <br> the two fractions <br> are equal in <br> value. | $\mathbf{1 / 2}=1 / 2$ |
| $\boldsymbol{l}$Less than sign is <br> used to show that <br> one fraction has <br> smaller value <br> than the other <br> number. | $\mathbf{3 / 8}<\mathbf{5 / 8}$ |  |
| $>$ | Greater than sign <br> is used to to show <br> that one fraction <br> has larger value <br> than the other <br> number. | $\mathbf{5 / 8}>\mathbf{3 / 8}$ |
|  |  |  |

## Comparison of like fraction

In comparing like fractions, let us use the rectangular figures below.


In tire (A), shaded portion represents $2 / 7$.

## B



In tire (B), shaded portion represents $3 / 7$.


In tire (C),shaded portion represents 5/7.

It is clear that $2 / 7<3 / 7<5 / 7$ or $5 / 7>3 / 7>2 / 7$

Compare the fractions by writing a <, > or = sign.


## TABLE OF ACTIVITIES

1. Repair' Compare
2. Wheel of Fractions
3. Fractool
4. Fix Less
5. Which Tool?
6. Screw Lock
7. Cars and Parts
8. Car Service
9. Flat Truck
10. Ordering

## REPAIR' COMPARE

Shade the circle (tire) under each fraction to represent the equation. Then use < or > to compare the sets.


## WHEEL OF FRACTIONS

Use the fraction wheels to complete the missing fractions, and use the symbols $<$, $>$ and $=$ to show how the fractions compare. The first one is done for you.


## FRACTOOL

Below are the tools with fractions in it. Draw a line to connect the tools with the same or equal fraction word.


## FIX LESS

Below is a car that needs to be fixed. Help Marcus to fix it by putting a check inside the box of a fraction which is less.
1

$\square$

$\square$ $\frac{1}{2}$



When do we say that a fraction is less than the other?
$\qquad$
$\qquad$

## WHICH TOOL?

Compare the fractions and color the circle that has the greater value. Use a green color.


## SCREW LOCK

Shade the correct fraction on each screw lock. Then compare each pair of fractions by using $<,>$, and $=$.


1. $\frac{3}{4} \div \frac{1}{4}$

$4 \frac{1}{2},-\frac{1}{2}$


## CARS AND PARTS

Have some fun with cars by completing the following tasks.


Color the shapes to show the given fractions.

|  |  |
| :--- | :--- |
|  |  |



|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |$\frac{5}{10}$

$$
\frac{6}{6} \quad \frac{1}{6}
$$




$\frac{9}{4}$|  |  |  |  |
| :--- | :--- | :--- | :--- |
| 10 |  |  |  |
|  |  |  |  |


|  |  |  |  |
| :--- | :--- | :--- | :--- |
|  |  |  |  |

Encircle the statements that are correct.


## CAR SERVICE

Provide a car service by completing the statements below. Use the terms greater or less to indicate comparison.


## FLAT TRUCK

Look at the shaded area in each set of trucks below and write the corresponding fractions.


Which fraction is smaller?


Which fraction is greater? $\qquad$


Which fraction is smaller? $\qquad$

## ORDERING

Write the fractions in order using "greater than" and "less than" symbols as shown.


## ANSWER GUIDE

## Activity 1

1. < 2. >
2. <
3. >

## Activity 2

1. $2 / 5<3 / 5$
2. $4 / 4=4 / 4$
3. $5 / 8>4 / 8$
4. $2 / 6<5 / 6$
5. $2 / 3>1 / 3$
6. $1 / 2<2 / 2$
7. $6 / 6=6 / 6$
8. $3 / 4<4 / 4$

## Activity 3

1. B
2. C
3. A

## Activity 4

1. $2 / 4$
2. $6 / 8$
3. $1 / 2$

## Activity 5

| 1. | $5 / 5$ | 4. | $8 / 9$ |
| :--- | :--- | :--- | :--- |
| 2. | $2 / 2$ | 5. | $4 / 4$ |
| 3. | $6 / 8$ | 6. | $3 / 3$ |

## Activity 6

| $1 .>$ | 4. | $=$ |
| :--- | :--- | :--- | :--- |
| 2. | 5. | $>$ |
| $3 .<$ | 6. | $<$ |

## ANSWER GUIDE

## Activity 7



## Activity 8

1. less
2. Greater
3. greater
4. greater
5. Less
6. less

## Activity 9

1. $1 / 2,2 / 2-1 / 2$ is smaller
2. $2 / 3,1 / 3-2 / 3$ is greater
3. $2 / 4,3 / 4-2 / 4$ is smaller

## Activity 10

| $4 / 3>2 / 3>1 / 3$ | $6 / 8>5 / 8>3 / 8$ | $7 / 15>2 / 15>1 / 15$ |
| :--- | :--- | :--- |
| $1 / 4<2 / 4<3 / 4$ | $3 / 6<5 / 6<6 / 6$ | $5 / 13<7 / 13<10 / 13$ |
| $3 / 2>2 / 2>1 / 2$ | $6 / 9<7 / 9<8 / 9$ | $5 / 5>3 / 5>5 / 5$ |

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