Comparing and Ordering Fractions

Lesson 7

LO: To be able to compare and order fractions with the same denominator

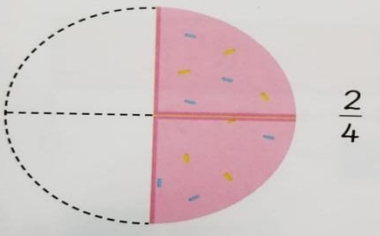
In Focus

Parents - provide students with paper cut into a circle. Allow them to cut out or colour the pieces they make to show you who eats more cake.

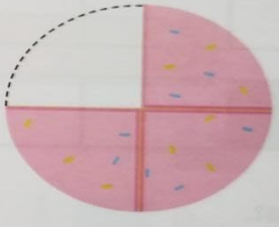
Lulu and Elliott each have a cake of the same size.
They each cut their cake into 4 equal pieces.
Lulu eats 2 pieces.
Elliott eats 3 pieces.
Who eats more cake?

Let's Learn

1



$\frac{2}{4}$



$\frac{3}{4}$

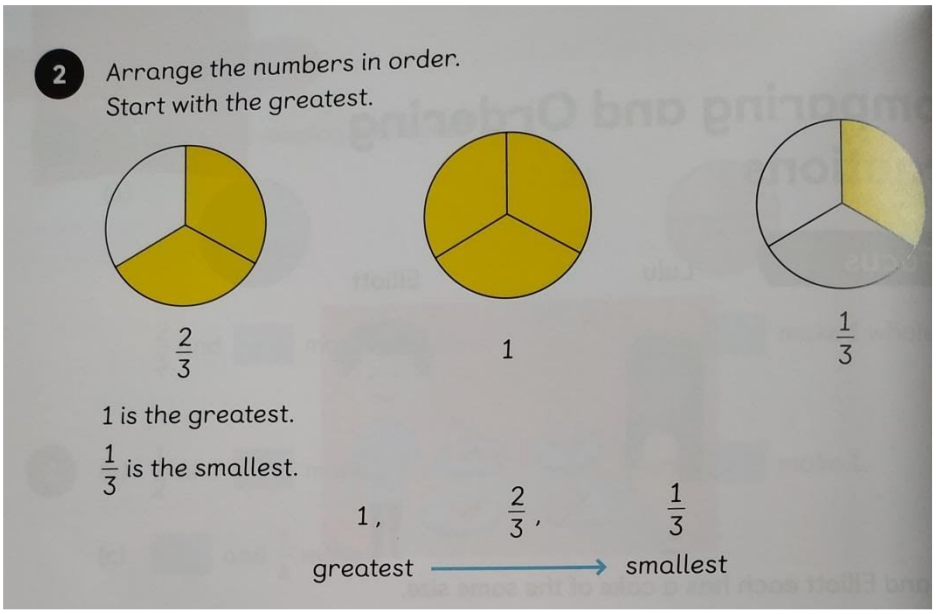
Lulu Elliott

$\frac{3}{4}$ is more than $\frac{2}{4}$.

Elliott eats more cake than Lulu.

Remember!

- 2 out of 4 pieces is equal with half of the cake $\Leftrightarrow$ $\frac{2}{4} = \frac{1}{2}$
- $\frac{1}{2}$ Equals half the cake, which is less than three fourths ($\frac{3}{4}$) of a cake!



Parents use the following explanation when talking to your children.

1 whole is the greatest fraction because the circle is divided into 3 equal pieces.

We can represent the fraction using the following number sentence:

$$\frac{3}{3} = 3 \div 3 \text{ and } 3 \div 3 = 1$$

Fractions use the operation of division, the reverse of multiplication.

Therefore, we can write the fractions as following:

$$\frac{3}{3} \qquad \frac{2}{3} \qquad \frac{1}{3}$$

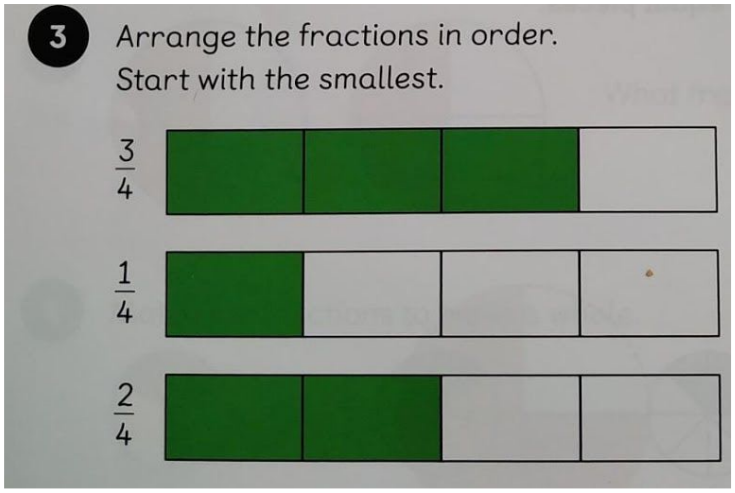
Greatest ——— Smallest

A rule to remember – When ordering fractions with the same denominator, look at the numerators and compare them two at a time.

$\frac{3}{4}$

Numerator
How many equal parts do you have?

Denominator
How many equal parts is the whole divided into?



Are the denominators the same?

Which numerator is the smallest?

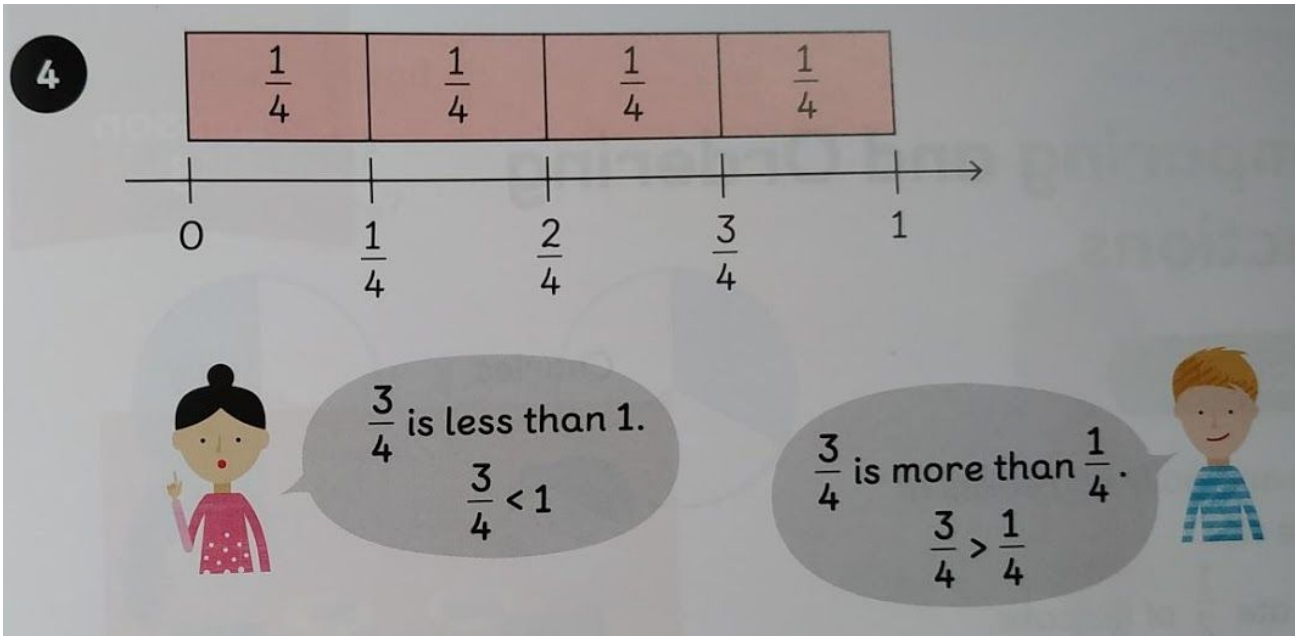
Which numerator is the greatest?

Write your answer inside the box.

_____ is the smallest fraction.

☐ , ☐ , ☐

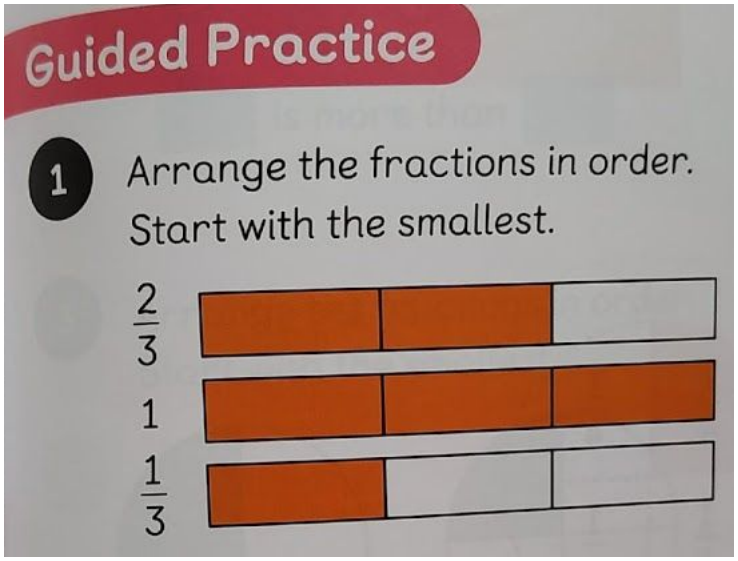
smallest ——————————— greatest



Parents – reiterate the rules from above!

In addition, highlight that:

- A quarter is a fourth of a whole.
- A quarter add a quarter equals 2 quarters.
- If we add three quarters, we have 3 quarters or 3 fourths.



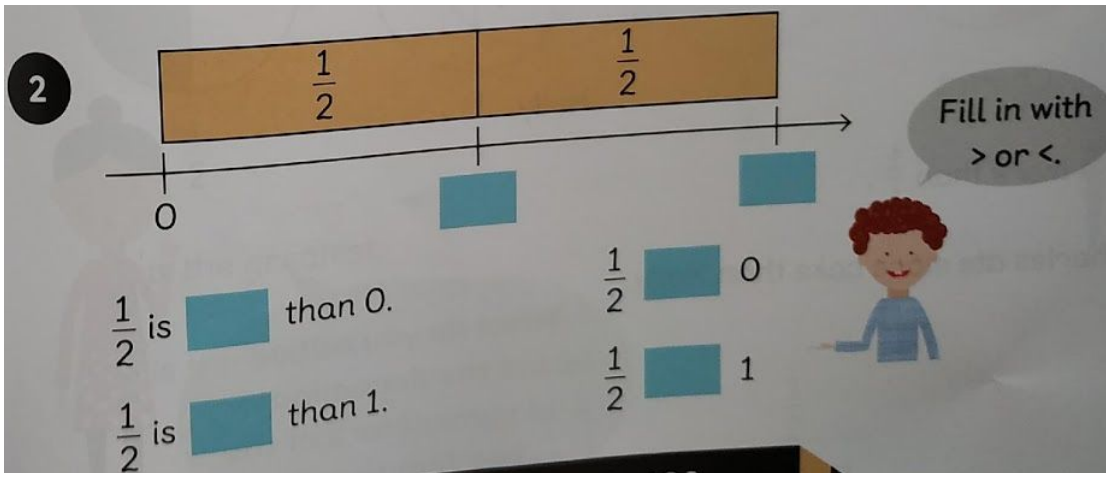
Remember that you have the same denominator.

Look at each numerator. Which one is the smallest? Which one is the greatest?

Type your answer below:

_____ , _____ , _____

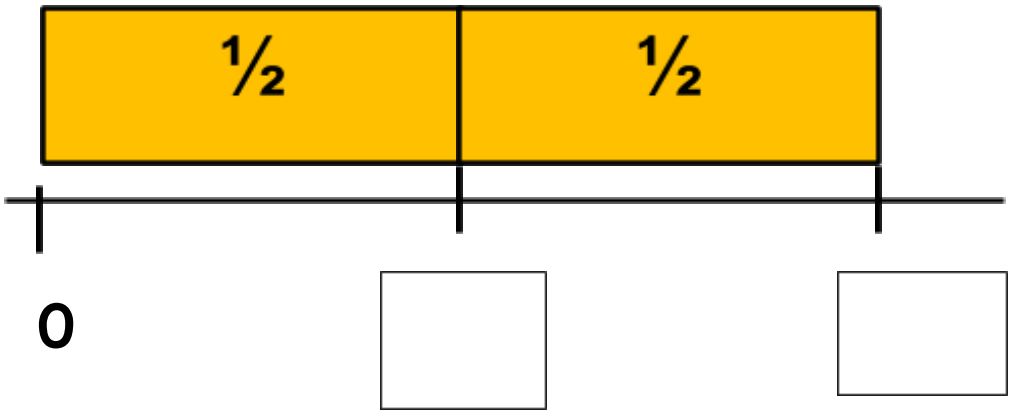
smallest



Use as guidance exercise 4 from the

Let's learn section!

Note: you can write in the box.



$\frac{1}{2}$ is _____ than 0.

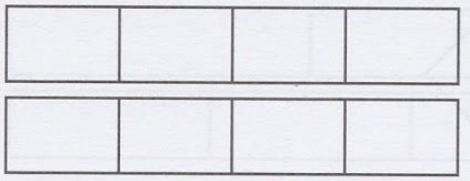
$\frac{1}{2}$ is _____than 1.

Worksheet 7

Comparing and Ordering Fractions

1 Colour the parts to show each fraction.
Fill in the blanks.

(a)



$\frac{1}{4}$

$\frac{3}{4}$

☐ is greater than ☐.

☐ is smaller than ☐.

How many parts would you colour to show a quarter of a fraction?

I would colour_____ .

How many parts would you colour to show three fourths of a fraction?

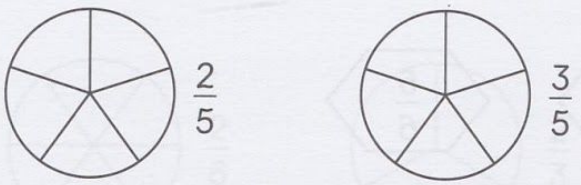
I would colour_____ .

Place your answer inside the box below.

☐ is greater than ☐

☐ is smaller than ☐ .

(b)



$\frac{2}{5}$ $\frac{3}{5}$

☐ is greater than ☐.

☐ is smaller than ☐.

How many parts would you colour to show two fifths of a fraction?

I would colour_____ .

How many parts would you colour to show three fifths of a fraction?

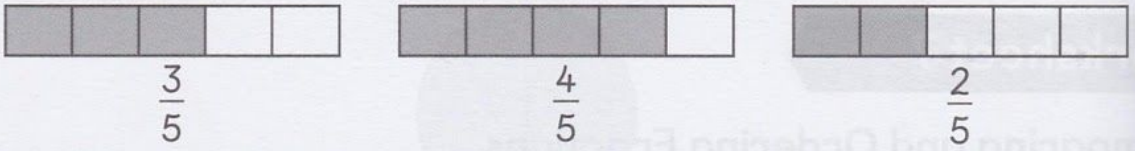
I would colour_____ .

☐ is greater than ☐ .

☐ is smaller than ☐ .

2 Arrange the fractions in order. Start with the smallest.

(a)



□ , □ , □

smallest

Have the fractions got the same denominator?

What about the numerator?

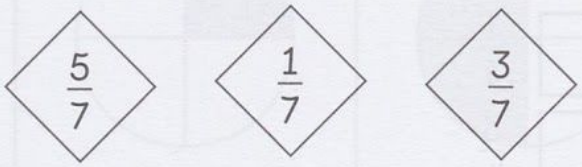
Which numerator is the smallest? Which numerator is the greatest?

Write your answer inside the boxes below:

□ , □ , □

smallest

(b)



□ , □ , □

smallest

Have the fractions got the same denominator?

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Which numerator is the smallest?
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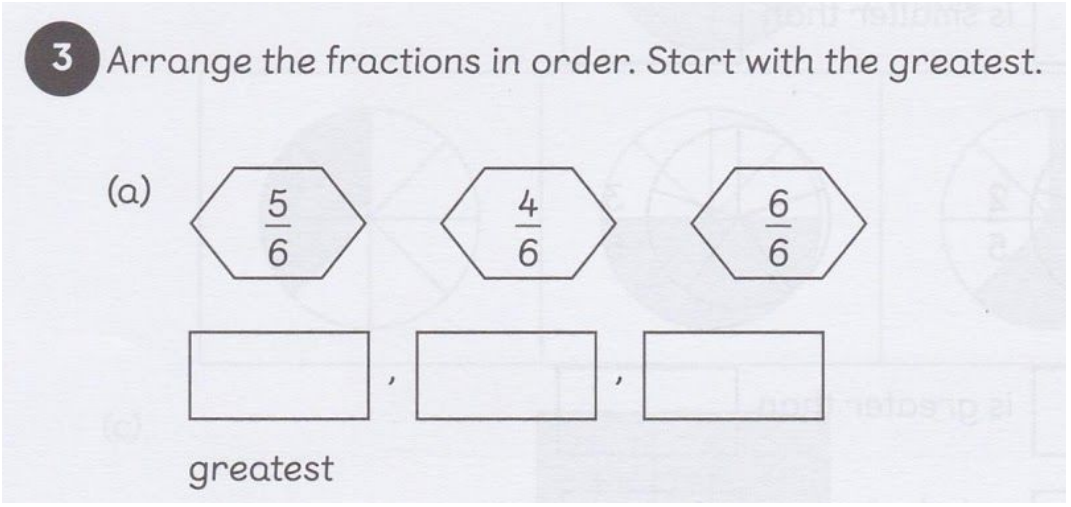
Write your answer inside the boxes below:

□ , □ , □

smallest



Have the fractions got the same denominator?

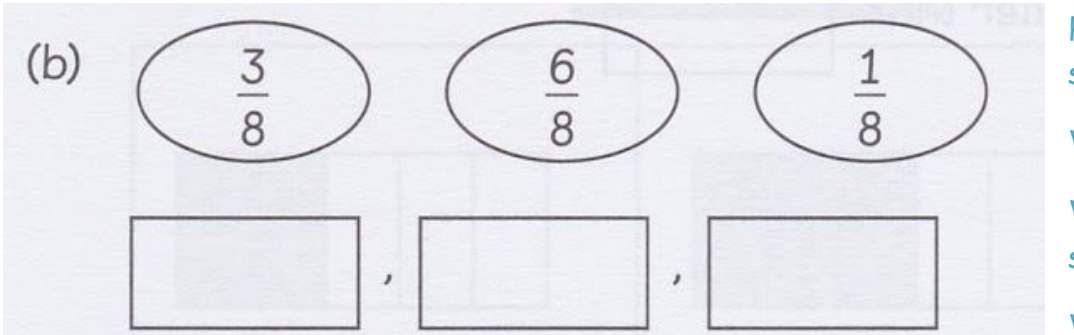
What about the numerator?

Which numerator is the smallest?

Which numerator is the greatest?

Write your answer inside the boxes below:

greatest



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greatest