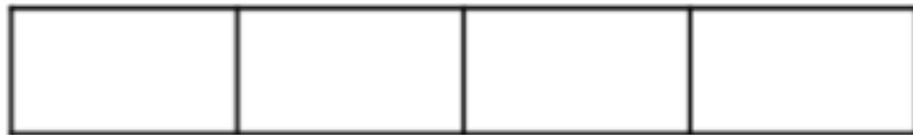


RECALL

Use the bar models to compare $\frac{3}{4}$ and $\frac{2}{3}$



_____ is greater than _____

_____ is less than _____

Do the same for:

2 and 5
3 6

2 and 6
5 10

L.O. - COMPARE AND ORDER FRACTIONS, INCLUDING FRACTIONS > 1

- **SOME WILL EVEN:** Solve a variety of problems requiring comparing and ordering fractions.
- **SOME WILL:** Order mixed numbers and fractions.
- **MOST WILL:** Recognise LCM of various denominators and convert.
- **ALL WILL:** Use bar model to compare fractions.

GUIDED PRACTICE – MY TURN



1. a) Does Bella's cat eat more than Jamie's cat each day?
PROVE IT!

b) Ebo's cat eats $\frac{81}{75}$ pouches

Of cat food a day.
Does Ebo's cat eat more than Bella's cat?

help

Use bar model to help you solve these questions.



How many pouches in total do Bella's cat, Jamie's cat and Ebo's cat eat each day?

GUIDED PRACTICE – MY TURN



1. a) Does Bella's cat eat more than Jamie's cat each day?
PROVE IT!

b) Ebo's cat eats $\frac{81}{75}$ pouches

Of cat food a day.
Does Ebo's cat eat more than Bella's cat?

help

Use bar model to help you solve these questions.



How many pouches in total do Bella's cat, Jamie's cat and Ebo's cat eat each day?

GUIDED PRACTICE – YOUR TURN



1. a) Does Bella's cat eat more than Jamie's cat each day?
PROVE IT!

b) Ebo's cat eats $\frac{11}{7}$ pouches

Of cat food a day.
Does Ebo's cat eat more than Bella's cat?

help

Use bar model to help you solve these questions.



How many pouches in total do Bella's cat, Jamie's cat and Ebo's cat eat each day?

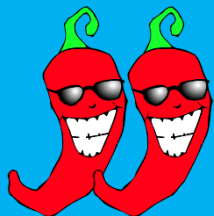
Compare and order these fractions:-



$$\frac{2}{5} \bigcirc \frac{4}{5}$$

$$\frac{7}{10} \bigcirc \frac{3}{10}$$

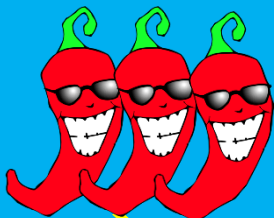
$$\frac{13}{25} \bigcirc \frac{21}{25}$$



$$\frac{4}{5} \bigcirc \frac{3}{4}$$

$$\frac{3}{5} \bigcirc \frac{4}{7}$$

$$\frac{3}{4} \bigcirc \frac{7}{10}$$



$$2\frac{2}{5} \bigcirc 2\frac{3}{8}$$



Order the fractions in descending order.

$$\frac{3}{8}, \frac{11}{20}, \frac{1}{2}, \frac{2}{5}, \frac{3}{4}, \frac{7}{10}$$

Which fraction is the greatest?

Which fraction is the smallest?

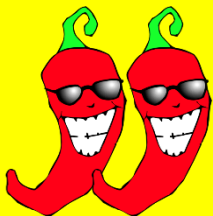
Compare and order these fractions:-



$$\frac{2}{5} < \frac{4}{5}$$

$$\frac{7}{10} > \frac{3}{10}$$

$$\frac{13}{25} < \frac{21}{25}$$



$$\frac{4}{5} > \frac{3}{4}$$

$$\frac{3}{5} > \frac{4}{7}$$

$$\frac{3}{4} > \frac{7}{10}$$

$$\frac{16}{20}$$

$$\frac{15}{20}$$

$$\frac{21}{35}$$

$$\frac{20}{35}$$

$$\frac{30}{40}$$

$$\frac{28}{20}$$



$$2\frac{2}{5} > 2\frac{3}{8}$$

$$\frac{16}{40}$$

$$\frac{15}{40}$$



Order the fractions in descending order.

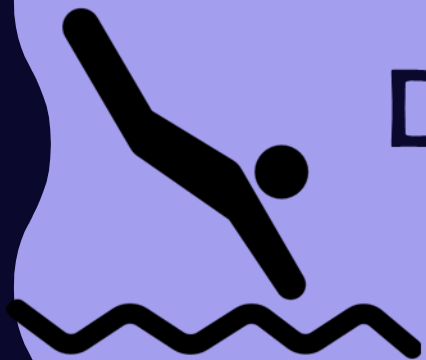
$$\frac{3}{8}, \frac{11}{20}, \frac{1}{2}, \frac{2}{5}, \frac{3}{4}, \frac{7}{10}$$

Which fraction is the greatest?

Which fraction is the smallest?

$$\frac{15}{40}, \frac{22}{40}, \frac{20}{40}, \frac{16}{40}, \frac{30}{40}, \frac{28}{40}$$

$$\frac{30}{40}, \frac{28}{40}, \frac{22}{40}, \frac{20}{40}, \frac{16}{40}, \frac{15}{40}$$



DIVE DEEPER 1

1)

TRUE OR FALSE?

When the numerator is the same, the larger the denominator, the smaller the fraction.

PROVE IT!

2)

Put each of these sets of fractions in order from smallest to biggest.

a) $\frac{2}{3}, \frac{1}{2}, \frac{5}{6}$

b) $\frac{1}{2}, \frac{5}{12}, \frac{5}{6}, \frac{3}{4}$

c) $\frac{4}{5}, \frac{3}{10}, \frac{49}{50}, \frac{4}{4}, \frac{99}{100}$

I need to find the lowest common multiple of more than two numbers here. This will be the denominator that I need to use in order to compare.



3)

Two different pieces of wood have had a fraction chopped off.

Here are the pieces now, with the fraction that is left.



Which piece of wood was the longest to begin with?

Explain your answer.

Can you explain your method?

4)

Fill in the missing digits to make the statements correct.

a) $\frac{\square}{6}$ is bigger than $\frac{2}{3}$

b) $\frac{2}{5}$ is smaller than $\frac{\square}{15}$

c) $\frac{1}{3} > \frac{\square}{4}$

d) $\frac{\square}{5} > \frac{1}{2} > \frac{\square}{10}$

e) $\frac{3}{8} < \frac{\square}{6}$

f) $\frac{3}{\square} < \frac{\square}{3}$

CHALLENGE

I think some statements may have more than one answer.

I can use a fraction wall or fraction strips to help me.



5)

Max has four fraction cards.

$$5\frac{2}{7}$$

$$5\frac{10}{21}$$

$$5\frac{6}{14}$$

$$\frac{36}{7}$$

Which fraction is the biggest?

Put the fractions in ascending order.

DIVE DEEPER 2



6)

Jamilla has some fraction cards.

She selects the following fraction card.

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

Which fraction cards are bigger than Jamilla's?

$$1\frac{7}{10}$$

$$\frac{17}{10}$$

$$4\frac{1}{8}$$

$$2\frac{11}{20}$$

$$\frac{21}{4}$$

$$\frac{189}{724}$$

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

$$2\frac{\text{snowflake}}{20}$$

Some of these are clearly bigger. I can tell by just looking.

The last card is bigger than Jamilla's number. I wonder what number could be missing.



CHALLENGE!



DIVE DEEPER 1



1)

TRUE OR FALSE?
When the numerator is the same, the larger the denominator, the smaller the fraction.

PROVE IT! **TRUE**

2)

Put each of these sets of fractions in order from smallest to biggest.

a) $\frac{2}{3}, \frac{1}{2}, \frac{5}{6}$

b) $\frac{1}{2}, \frac{5}{12}, \frac{5}{6}, \frac{3}{4}$

c) $\frac{4}{5}, \frac{3}{10}, \frac{49}{50}, \frac{4}{4}, \frac{99}{100}$

<u>9</u>	<u>12</u>	<u>15</u>
18	18	18

<u>5</u>	<u>6</u>	<u>9</u>	<u>10</u>
12	12	12	12

<u>30</u>	<u>80</u>	<u>98</u>	<u>99</u>	<u>100</u>
100	100	100	100	100



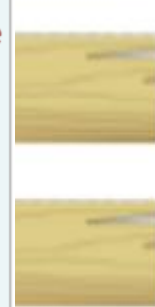
3)

Two different pieces of wood have had a fraction chopped off.

Here are the pieces now, with the fraction that is left.



The second piece was longer because $\frac{1}{4}$ is greater than $\frac{1}{6}$. Children can explain their methods and how they compared one quarter and one sixth.



$$\frac{5}{6}$$
$$\frac{3}{4}$$

Which piece of wood was the longest to begin with?

Explain your answer.

Can you explain your method?

4)

Fill in the missing digits to make the statements correct.

a) $\frac{\square}{6}$ is bigger than $\frac{2}{3}$

b) $\frac{2}{5}$ is smaller than $\frac{\square}{15}$

c) $\frac{1}{3} > \frac{\square}{4}$

d) $\frac{\square}{5} > \frac{1}{2} > \frac{\square}{10}$

e) $\frac{3}{8} < \frac{\square}{6}$

f) $\frac{3}{\square} < \frac{\square}{3}$

CHALLENGE

I think some statements may have more than one answer.

I can use a fraction wall or fraction strips to help me.



5)

Max has four fraction cards.

$$5\frac{2}{7}$$

$$5\frac{10}{21}$$

$$5\frac{6}{14}$$

$$\frac{36}{7}$$

Which fraction is the biggest?

Put the fractions in ascending order.

DIVE DEEPER 2



6)

Jamilla has some fraction cards.

She selects the following fraction card.

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

Which fraction cards are bigger than Jamilla's?

$$1\frac{7}{10}$$

$$\frac{17}{10}$$

$$4\frac{1}{8}$$

$$2\frac{11}{20}$$

$$\frac{21}{4}$$

$$\frac{189}{724}$$

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

$$2\frac{\text{snowflake}}{20}$$

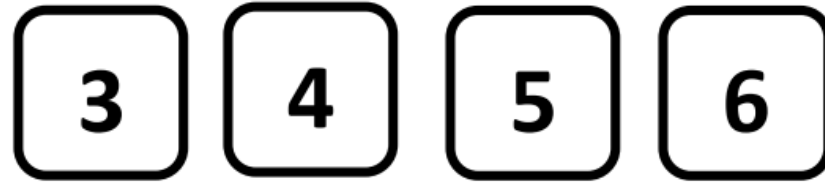
Some of these are clearly bigger. I can tell by just looking.

The last card is bigger than Jamilla's number. I wonder what number could be missing.



CHALLENGE!

Use the digit cards:



Find ways of completing the statement: $\frac{\square}{\square} > \frac{\square}{\square}$

How many ways are there? Can you include any improper fractions?

