

COMPARE AND ORDER FRACTIONS LESS THAN 1



GET READY



1) Complete the equivalent fraction.

$$\frac{2}{5} = \frac{\boxed{}}{20}$$

2) Write the first 7 multiples of 7

3) Write the first 7 multiples of 4

4) What is the lowest common multiple of 4 and 7?

1) Complete the equivalent fraction.

$$\frac{2}{5} = \frac{\boxed{}}{20}$$

2) Write the first 7 multiples of 7

7, 14, 21, 28, 35, 42, 49

3) Write the first 7 multiples of 4

4, 8, 12, 16, 20, 24, 28

4) What is the lowest common multiple of 4 and 7?

28

LET'S LEARN



Write $>$, $<$ or $=$ to compare the fractions

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



$\frac{3}{10}$ is smaller than $\frac{7}{10}$

When the denominators are the same, the greater the numerator, the greater the fraction.

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Write $>$, $<$ or $=$ to compare the fractions

$$\frac{2}{5} \quad \bigcirc \quad \frac{7}{15}$$

Multiples of 5: 5, 10, 15

$$\frac{6}{15} < \frac{7}{15}$$

$$\frac{2}{5} = \frac{6}{15}$$

Diagram illustrating the conversion of $\frac{2}{5}$ to $\frac{6}{15}$ by multiplying both the numerator and denominator by 3.

Have a think



Write $>$, $<$ or $=$ to compare the fractions

$$\frac{3}{18} \quad \frac{1}{6} \quad \circlearrowleft \quad \frac{5}{18}$$

$$\frac{12}{25} \quad \circlearrowleft \quad \frac{3}{5} \quad \frac{15}{25}$$

$$\frac{36}{36} \quad \circlearrowright \quad \frac{9}{9}$$



Have a think



I know that $\frac{4}{7}$ is greater than $\frac{5}{11}$ without having to draw a bar model or find a common denominator.



I know that $\frac{4}{7}$ is greater than one half and $\frac{5}{11}$ is less than one half, so $\frac{4}{7}$ has to be greater.

$$\frac{4}{7} > \frac{1}{2}$$

$$7 \div 2 = 3.5$$

$$\frac{5}{11} < \frac{1}{2}$$

$$11 \div 2 = 5.5$$

Have a think



$$\frac{8}{14} \bigcirc \frac{10}{22}$$

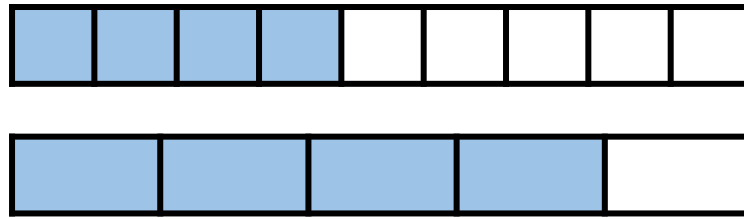
$$14 \div 2 = 7$$

$$22 \div 2 = 11$$

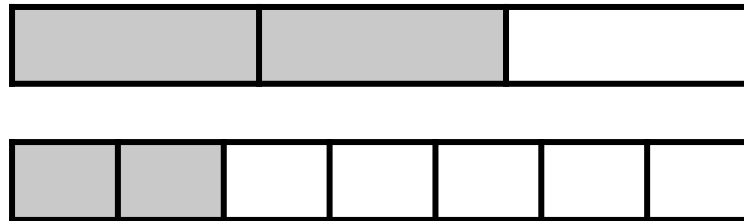
$$\frac{8}{14} > \frac{1}{2}$$

$$\frac{10}{22} < \frac{1}{2}$$

$$\frac{4}{9} < \frac{4}{5}$$



$$\frac{2}{3} > \frac{2}{7}$$



Have a think



What's the same and what's different?

What do you notice?

When the numerators are the same, the greater the denominator, the smaller the fraction.

$$\frac{1}{3} > \frac{1}{100}$$

When the numerators are the same, the greater the denominator, the smaller the fraction.

When the numerators are the same, the smaller the denominator, the greater the fraction.

Write $>$, $<$ or $=$ to compare the fractions

$$\frac{3}{7} \bigcirc \frac{6}{11}$$

When the numerators are the same, the greater the denominator, the smaller the fraction.

$$\begin{array}{ccc} & \frac{3}{7} & \bigcirc \frac{6}{11} \\ \times 2 \swarrow & & \\ & \frac{6}{14} & \end{array}$$

Have a think



When the numerators are the same, the greater the denominator, the smaller the fraction.

$$\frac{3}{10} < \frac{12}{37}$$

$\times 4$

$$\frac{12}{40}$$

$$\frac{10}{27} > \frac{20}{62}$$

$\div 2$

$$\frac{10}{31}$$

$$\frac{3}{8} > \frac{1}{5}$$

$\times 3$

$$\frac{3}{15}$$

YOUR TURN

Have a go at questions
1 - 4 on the worksheet

