TT Rockstars

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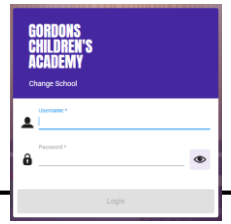

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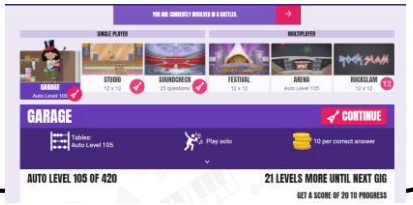

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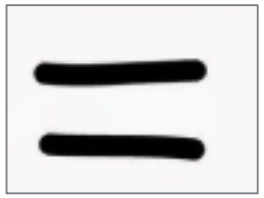
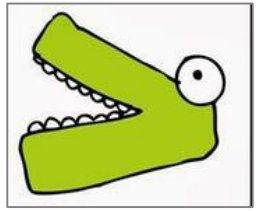
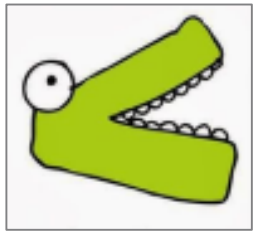
Maths Task Three
LO – I can compare fractions

Match the symbols to the correct picture.







greater than

less than

equal to

Arithmetic:

1. $3146 - 652 =$
2. $36 \times 5 =$
3. $6^2 + 3^2 =$
4. $\_\_\_\_ - 475 = 9760$
5. $7 \times 8 \times 1000 =$
6. $4376 \div 7 =$

7. Complete the fractions.

$$\frac{43}{100} = \frac{4}{10} + \frac{\square}{100}$$

$$\frac{79}{100} = \frac{\square}{10} + \frac{9}{\square}$$

Extension:

The square and the regular hexagon have the **same** perimeter.

Work out the length of one side of the square.

Arithmetic:

1. $3146 - 652 = 2494$
2. $36 \times 5 = 180$
3. $6^2 + 3^2 = 45$
4. $10235 - 475 = 9760$
5. $7 \times 8 \times 1000 = 56000$
6. $4376 \div 7 = 625\ r1$

7. Complete the fractions.

$$\frac{43}{100} = \frac{4}{10} + \frac{3}{100}$$

$$\frac{79}{100} = \frac{7}{10} + \frac{9}{100}$$

Extension: The square and the regular hexagon have the **same** perimeter.

Work out the length of one side of the square.

Award 1 mark for working out the perimeter of the hexagon is 48 cm

12 cm

Watch this video to learn how to compare fractions.

https://www.youtube.com/watch?v=C1dGmnS7g-4

Method:

Example:

$\frac{3}{8}$ $\frac{1}{2}$

Write out the first five multiples of each denominator.

$\frac{3}{8}$ = 8 16 24 32 40

$\frac{1}{2}$ = 2 4 6 8 10

Find the LOWEST common multiple.

8

Use multiplication to change the denominator.

$\frac{1}{2} = \frac{4}{8}$ (X2 above 4, X2 below 2)

$\frac{3}{8}$ = no need because denominator is 8

Compare using

> < =

This fraction didn't change $\frac{3}{8} < \frac{4}{8}$ This fraction was $\frac{1}{2}$

Compare the following fractions using < > =

1. $\frac{1}{2}$ $\frac{3}{8}$
2. $\frac{1}{3}$ $\frac{3}{6}$
3. $\frac{1}{4}$ $\frac{3}{8}$
4. $\frac{2}{9}$ $\frac{1}{3}$
5. $\frac{3}{5}$ $\frac{2}{10}$
6. $\frac{4}{5}$ $\frac{6}{10}$

Compare the following fractions using < > =

1. $\frac{4}{5}$ $\frac{6}{10}$
2. $\frac{2}{6}$ $\frac{5}{12}$
3. $\frac{4}{12}$ $\frac{1}{4}$
4. $\frac{7}{12}$ $\frac{1}{2}$
5. $\frac{1}{4}$ $\frac{3}{8}$
6. $\frac{5}{7}$ $\frac{4}{14}$

Compare the following fractions using < > =

1. $\frac{3}{8}$ $\frac{7}{24}$
2. $\frac{7}{8}$ $\frac{19}{24}$
3. $\frac{1}{10}$ $\frac{13}{40}$
4. $\frac{3}{5}$ $\frac{11}{15}$
5. $\frac{3}{10}$ $\frac{11}{30}$
6. $\frac{3}{4}$ $\frac{36}{48}$

Compare the following fractions using < > =

1. $\frac{1}{2} > \frac{3}{8}$
2. $\frac{1}{3} < \frac{3}{6}$
3. $\frac{1}{4} < \frac{3}{8}$
4. $\frac{2}{9} < \frac{1}{3}$
5. $\frac{3}{5} > \frac{2}{10}$
6. $\frac{4}{5} > \frac{6}{10}$

Compare the following fractions using < > =

1. $\frac{4}{5} > \frac{6}{10}$
2. $\frac{2}{6} < \frac{5}{12}$
3. $\frac{4}{12} > \frac{1}{4}$
4. $\frac{7}{12} > \frac{1}{2}$
5. $\frac{1}{4} < \frac{3}{8}$
6. $\frac{5}{7} > \frac{4}{14}$

Compare the following fractions using < > =

1. $\frac{3}{8} > \frac{7}{24}$
2. $\frac{7}{8} > \frac{19}{24}$
3. $\frac{1}{10} > \frac{13}{40}$
4. $\frac{3}{5} > \frac{11}{15}$
5. $\frac{3}{10} < \frac{11}{30}$
6. $\frac{3}{4} = \frac{36}{48}$

Reasoning

Charlie says,

$$\frac{2}{5} > \frac{3}{4}$$

Because 5 > 4

Do you agree? Why or why not?

Explain your answer.

Reasoning

Charlie says,

$$\frac{2}{5} > \frac{3}{4}$$

Because 5 > 4

Do you agree? Why or why not?

Explain your answer.

Charlie is not correct:

$$\frac{2}{5} > \frac{3}{4}$$

$$\frac{2}{5} = \frac{8}{20} \quad and \quad \frac{3}{4} = \frac{15}{20}$$

$$\frac{8}{20} < \frac{15}{20}$$

He did not change his fractions to a common denominator.

Problem Solving

Emma has completed $\frac{7}{11}$ $of\ her\ homework$.

Liam has completed $\frac{5}{8}$ of his homework.

Who has completed the most?

Explain and prove your answers.

Answer: Problem Solving

Emma has completed $\frac{7}{11}$ *of her homework*.

Liam has completed $\frac{5}{8}$ of his homework.

Who has completed the most?

Explain and prove your answers.

$\frac{7}{11}$ $\frac{5}{8}$

11- 11 22 33 44 55 66 77 88 99

8 - 8 16 24 32 40 48 56 64 72 80 88

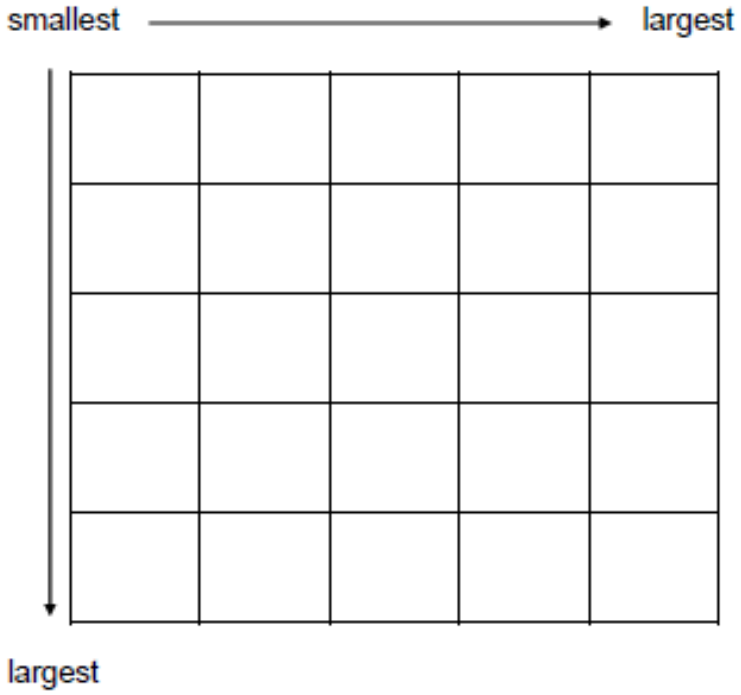
Emma : $\frac{7}{11} = \frac{56}{88}$

Liam : $\frac{5}{8} = \frac{55}{88}$

Emma has completed most homework.

Chilli Challenge

Gold



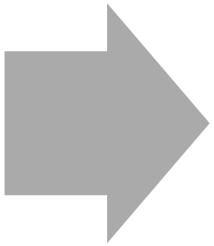
Can you put all of the fractions into the grid so that every row and column is in **ascending** order (from smallest to biggest)?

$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{12}$	$\frac{17}{24}$	$\frac{5}{16}$
$\frac{3}{4}$	$\frac{1}{2}$	$\frac{11}{16}$	$\frac{23}{48}$	$\frac{2}{3}$
$\frac{7}{16}$	$\frac{3}{8}$	$\frac{5}{8}$	$\frac{11}{12}$	$\frac{13}{24}$
$\frac{5}{6}$	$\frac{1}{16}$	$\frac{19}{24}$	$\frac{7}{8}$	$\frac{1}{6}$
$\frac{1}{3}$	$\frac{13}{16}$	$\frac{1}{8}$	$\frac{1}{12}$	$\frac{7}{12}$

Send us your work so we can see how you are doing!

Take a picture of your work.

Is there anything you struggled with? Let us know!



Send it to year5@gordonshildrensacademy.org.uk