

TT Rockstars



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Press

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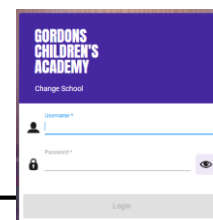
SCHOOL

Press

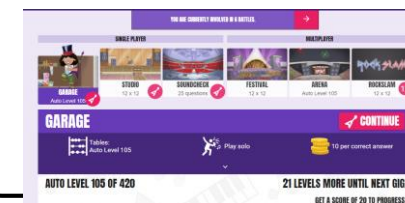
STUDENT



Search for Gordons
Children's Academy;



Type in your user name and
password and play!



Become the best Rock Star!

Maths Task Four

LO – I can add fractions

Numerator
The **NUMERATOR** is the number above the line of the fraction. It tells us how many pieces we have. In this fraction we have 3 pieces.

Denominator
The **DENOMINATOR** is the number below the line of the fraction. It tells us how many pieces there are altogether. In this fraction there are 4 total pieces.

Arithmetic:

1. $48 \div \underline{\hspace{2cm}} = 6$

2. $24 \times 4 =$

3. $3,456 + 2,347 =$

4. $7,314 - 1,000 = \underline{\hspace{2cm}} + 5,314$

5. $2^3 + 7^2 =$

6. $752 \div 8 =$

7.

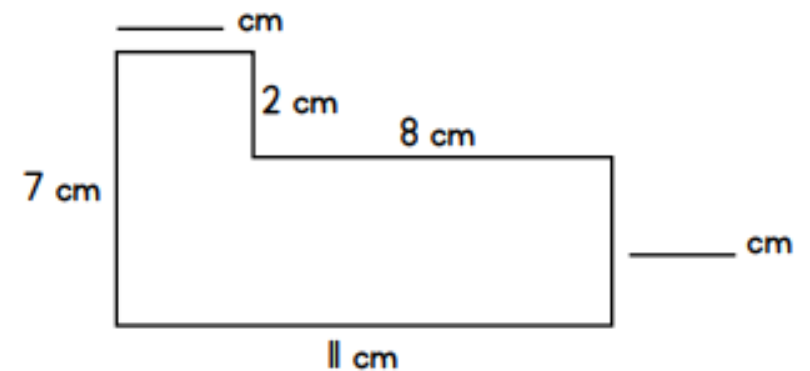
Complete the conversions.

1 m = cm

1 litre = millilitres

3 cm = mm

Extension:



Complete the missing lengths.

Work out the perimeter of the shape.

Arithmetic Answers:

1. $48 \div 8 = 6$

2. $24 \times 4 = 96$

3. $3,456 + 2,347 = 5,803$

4. $7,314 - 1,000 = 1,000 + 5,314$

5. $2^3 + 7^2 = 57$

6. $752 \div 8 = 94$

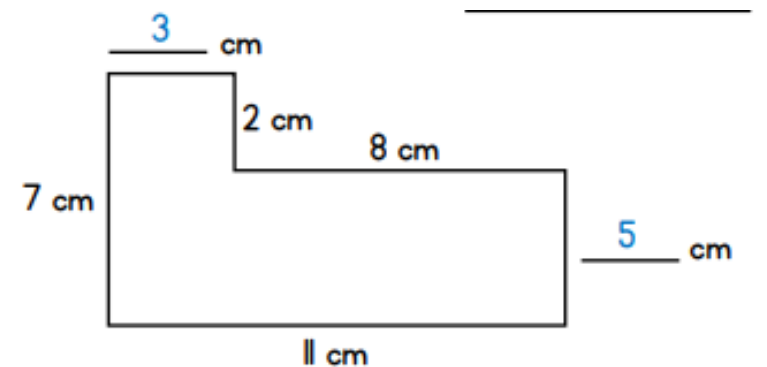
7. Complete the conversions.

1 m = 100 cm

1 litre = 1,000 millilitres

3 cm = 30 mm

Extension:



Complete the missing lengths.

Work out the perimeter of the shape.

Method:

Write the equation:

$$\frac{1}{3} + \frac{1}{4}$$

Find the lowest common denominator by working out the multiples for each denominator:

$$\frac{1}{3} \rightarrow 3, 6, 9, 12, 15$$

$$\frac{1}{4} \rightarrow 4, 8, 12, 16, 20$$

Then it's easy to see the lowest common denominator:

$$12$$

Convert the fractions to its equivalent using the lowest common denominator:

$$\frac{1}{3} \xrightarrow[\times 4]{\times 4} \frac{4}{12} \quad \frac{1}{4} \xrightarrow[\times 3]{\times 3} \frac{3}{12}$$

Don't forget to multiply the top AND the bottom

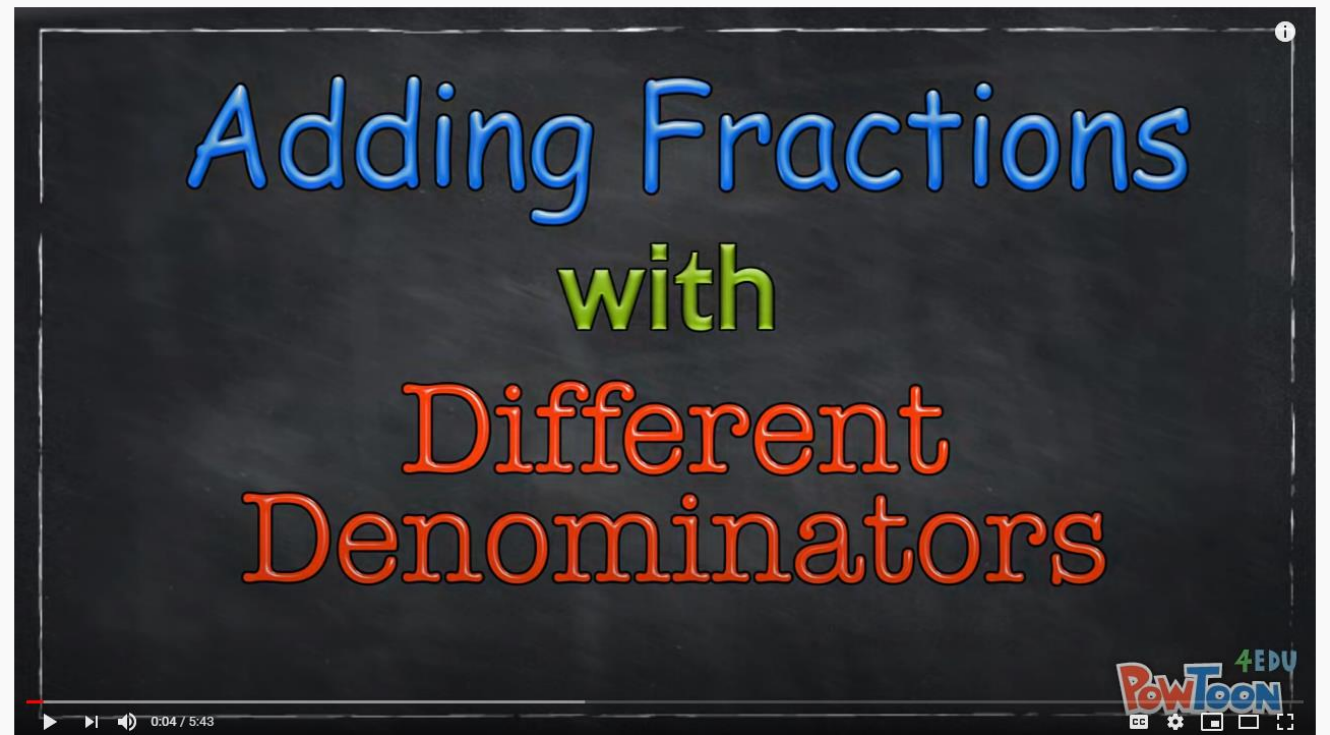
Add your equivalent fractions:

$$\frac{4}{12} + \frac{3}{12} = \frac{7}{12}$$

Now you have the answer.

Watch this video to learn how to add fractions.

<https://www.youtube.com/watch?v=tDQipFjAoT8>



Adding Fractions with Different Denominators



1. $\frac{1}{2} + \frac{1}{4} =$

2. $\frac{1}{5} + \frac{2}{10} =$

3. $\frac{2}{3} + \frac{1}{6} =$

4. $\frac{2}{4} + \frac{1}{8} =$

5. $\frac{2}{2} + \frac{2}{8} =$

6. $\frac{1}{2} + \frac{2}{3} =$



1. $\frac{11}{12} + \frac{1}{4} =$

2. $\frac{2}{3} + \frac{5}{6} =$

3. $\frac{5}{8} + \frac{1}{2} =$

4. $\frac{9}{10} + \frac{4}{5} =$

5. $\frac{3}{4} + \frac{1}{12} + \frac{3}{3} =$

6. $\frac{11}{16} + \frac{3}{8} + \frac{1}{4} =$



1. $\frac{1}{3} + \frac{1}{6} + \frac{5}{12} =$

2. $\frac{11}{20} + \frac{3}{5} + \frac{9}{10} =$

3. $\frac{5}{8} + \frac{7}{16} + \frac{3}{4} =$

4. $\frac{23}{24} + \frac{11}{12} + \frac{2}{3} =$

5. $\frac{1}{15} + \frac{4}{5} + \frac{6}{25} =$

6. $\frac{2}{6} + \frac{6}{12} + \frac{20}{48} =$



Answers:

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

2. $\frac{4}{10}$

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

4. $\frac{5}{8}$

5. $\frac{10}{8}$ OR $1\frac{2}{8} =$

6. $\frac{7}{6}$ OR $1\frac{1}{6} =$



1. $\frac{14}{12}$ OR $1\frac{2}{12}$

2. $\frac{9}{6}$ OR $1\frac{3}{6} =$

3. $\frac{9}{8}$ OR $1\frac{1}{8} =$

4. $\frac{18}{10}$ OR $1\frac{8}{10} =$

5. $\frac{22}{12}$ OR $1\frac{10}{12}$

6. $\frac{21}{16}$ OR $1\frac{5}{16}$



1. $\frac{11}{12}$

2. $\frac{41}{20}$ OR $2\frac{1}{20}$

3. $\frac{29}{16}$ OR $2\frac{13}{16}$

4. $\frac{61}{24}$ OR $2\frac{13}{24}$

5. $\frac{83}{75}$ OR $1\frac{8}{75}$

6. $\frac{60}{48}$ OR $1\frac{12}{48}$

Reasoning

True or False?

$$\frac{2}{4} + \frac{1}{12} = \frac{3}{12}$$

$$\frac{4}{7} + \frac{6}{14} = \frac{10}{14}$$

$$\frac{2}{12} + \frac{8}{48} = \frac{10}{12}$$

Prove your answers.

R

Reasoning

True or False?

$$\frac{2}{4} + \frac{1}{12} = \frac{3}{12} \quad \text{FALSE} \quad \frac{6}{12} + \frac{1}{12} = \frac{7}{12}$$

$$\frac{4}{7} + \frac{6}{14} = \frac{10}{14} \quad \text{FALSE} \quad \frac{8}{14} + \frac{6}{14} = \frac{14}{14} = 1$$

$$\frac{2}{12} + \frac{8}{48} = \frac{10}{15} \quad \text{FALSE} \quad \frac{8}{48} + \frac{8}{48} = \frac{16}{48}$$

Prove your answers.

R

Problem Solving

Use the clues below to work out which 3 fractions add together to total $\frac{14}{18}$.

- One of the denominators is 18. Another is half of this.
- One of the denominators is a third of 9.
- No numerator is greater than 4.
- Two of the numerators are even and one is half the size of the other.

Problem Solving

Use the clues below to work out which 3 fractions add together to total $\frac{14}{18}$.

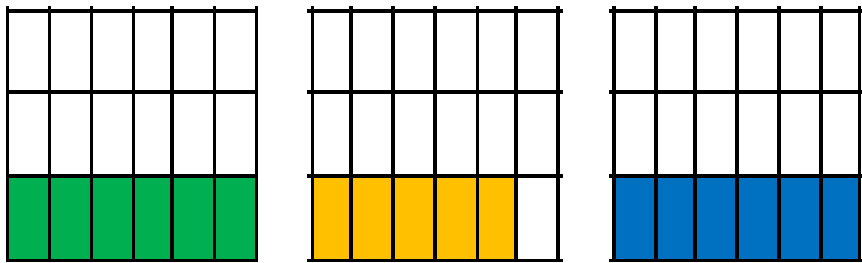
- One of the denominators is 18. Another is half of this.
- One of the denominators is a third of 9.
- No numerator is greater than 4.
- Two of the numerators are even and one is half the size of the other.

ANSWERS:

$$\frac{4}{18} + \frac{2}{9} + \frac{1}{3} = \frac{14}{18}$$

Chilli Challenge

1a. Martha has added three fractions based on the models below.



$$\frac{3}{9} + \frac{5}{18} + \frac{6}{18} = \frac{14}{18}$$

Is she correct? Prove it.

3a. True or false? Lola's calculation gives the larger answer.



Lola

$$\frac{1}{7} + \frac{4}{14} + \frac{3}{14}$$

$$\frac{1}{7} + \frac{3}{14} + \frac{3}{14}$$

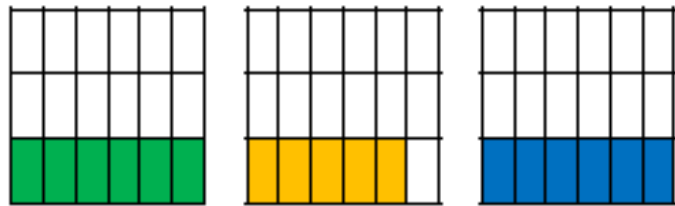


Ricardo

Explain your answer.

Chilli Challenge

1a. Martha has added three fractions based on the models below.



$$\frac{3}{9} + \frac{5}{18} + \frac{6}{18} = \frac{14}{18}$$

Is she correct? Prove it.

1a. Martha is incorrect because she needs to convert the $\frac{3}{9}$ to $\frac{6}{18}$. The answer is $\frac{17}{18}$.

3a. True or false? Lola's calculation gives the larger answer.



Lola

$$\frac{1}{7} + \frac{4}{14} + \frac{3}{14}$$

$$\frac{1}{7} + \frac{3}{14} + \frac{3}{14}$$



Ricardo

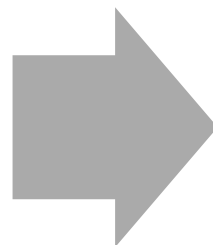
Explain your answer.

3a. True because $\frac{9}{14}$ is more than $\frac{8}{14}$.

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@gordonschildrensacademy.org.uk