

MATHS CHALLENGES

UPPER PRIMARY EXTENSION

Hexagonal Number Challenges



This is a tricky puzzle where you need to place the numbers 1 to 9 in a special hexagonal shape. It is similar to a Sudoku puzzle but much harder!

The goal is to make sure that in each row, the numbers add up to the same total.

You are going to use all the hexagonal numbers 1 to 9 to 40. There is only one way to do this correctly.

Each row must equal 20.



Ball for Order

These examples of equal 24, even though the order and operations are different. Sometimes changing the order also changes the answer ... but sometimes it doesn't! Your challenge is to find out when and why!

GOALS
Cut the numbers out below and fit the hexagons with numbers in clockwise order up to 24.

(Count back - this uses hidden numbers)

1	2	3	4
5	6	7	8

Using the given hexagons, how many different orders that still give you the same answer? Each hexagon must equal your target answer.

GOALS
Divide up a tree test with your partner. Try to write as many different number sequences as possible.

Hexagon Challenges

1. How does the placement of hexagons affect the answer?
2. What happens when you use only 1 and 2? Which operations give you more flexibility?
3. Can you create a general rule or tip to help others write different sequences that reach the same total?

Choose one of the 3 questions above to answer in detail. Use creative or fun ways to present your answer!

Egyptian Fraction Challenges



The ancient Egyptians only used unit fractions (fractions with 1 as the numerator), and they could write other fractions as sums of different unit fractions. For example, they wouldn't write $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$.

The style of writing can sometimes be simpler and clever ... but it's not always simple! These Egyptian fractions show $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$.



In this problem we are going to start by considering how the Egyptians might have written fractions with a numerator of 2 (ie. of the form $\frac{2}{n}$).

For example,

$\frac{2}{3} = \frac{1}{2} + \frac{1}{6}$ (This was not allowed because they use the same. They must be a sum of different unit fractions). Instead,

$$\frac{2}{3} = \frac{1}{3} + \frac{1}{3} \quad \text{OR} \quad \frac{2}{3} = \frac{1}{4} + \frac{1}{12} \quad \text{OR} \quad \frac{2}{3} = \frac{1}{5} + \frac{1}{10} + \frac{1}{15}$$

GOALS

Your challenge is to explore other fractions with a numerator of 2. What is the simplest way they can be written? How many ways can that fraction be written as a sum of only two fractions? Record all your findings below.

GOALS

Can you find that all fractions with a numerator of 2 could be written as a sum of two different fractions? Can you notice any patterns with which fractions this could/could not be done with?

Fraction	Answer
$\frac{2}{2}$	1
$\frac{2}{3}$	1
$\frac{2}{4}$	1
$\frac{2}{5}$	1
$\frac{2}{6}$	1
$\frac{2}{7}$	1
$\frac{2}{8}$	1
$\frac{2}{9}$	1
$\frac{2}{10}$	1
$\frac{2}{11}$	1
$\frac{2}{12}$	1
$\frac{2}{13}$	1
$\frac{2}{14}$	1
$\frac{2}{15}$	1
$\frac{2}{16}$	1
$\frac{2}{17}$	1
$\frac{2}{18}$	1
$\frac{2}{19}$	1
$\frac{2}{20}$	1
$\frac{2}{21}$	1
$\frac{2}{22}$	1
$\frac{2}{23}$	1
$\frac{2}{24}$	1
$\frac{2}{25}$	1
$\frac{2}{26}$	1
$\frac{2}{27}$	1
$\frac{2}{28}$	1
$\frac{2}{29}$	1
$\frac{2}{30}$	1
$\frac{2}{31}$	1
$\frac{2}{32}$	1
$\frac{2}{33}$	1
$\frac{2}{34}$	1
$\frac{2}{35}$	1
$\frac{2}{36}$	1
$\frac{2}{37}$	1
$\frac{2}{38}$	1
$\frac{2}{39}$	1
$\frac{2}{40}$	1

OPEN ENDED PROBLEM SOLVING

Open Ended Maths Activities Fractions

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