



# Joseph Leckie Academy

## Mathematics Transition Activity

### Mathematics - Egyptian Fractions

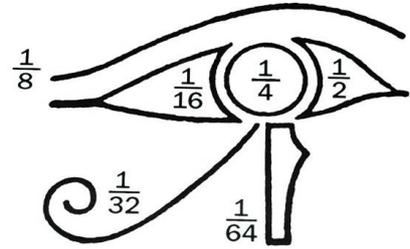
The ancient Egyptians only used **unit** fractions.

They only used fractions with a numerator of 1.

In their system,  $\frac{8}{15}$  could be written as:

$$\frac{8}{15} = \frac{1}{3} + \frac{1}{5}$$

where all the fractions had to be different.



**Task 1:** Write the following fractions as the sum of **two** unit fractions.

1]  $\frac{5}{6}$  \_\_\_\_\_

10]  $\frac{10}{21}$  \_\_\_\_\_

19]  $\frac{11}{24}$  \_\_\_\_\_

2]  $\frac{9}{14}$  \_\_\_\_\_

11]  $\frac{7}{24}$  \_\_\_\_\_

20]  $\frac{2}{3}$  \_\_\_\_\_

3]  $\frac{9}{20}$  \_\_\_\_\_

12]  $\frac{7}{10}$  \_\_\_\_\_

21]  $\frac{5}{12}$  \_\_\_\_\_

4]  $\frac{11}{18}$  \_\_\_\_\_

13]  $\frac{3}{8}$  \_\_\_\_\_

22]  $\frac{11}{28}$  \_\_\_\_\_

5]  $\frac{4}{9}$  \_\_\_\_\_

14]  $\frac{16}{63}$  \_\_\_\_\_

23]  $\frac{5}{8}$  \_\_\_\_\_

6]  $\frac{13}{36}$  \_\_\_\_\_

15]  $\frac{13}{42}$  \_\_\_\_\_

24]  $\frac{3}{4}$  \_\_\_\_\_

7]  $\frac{15}{56}$  \_\_\_\_\_

16]  $\frac{13}{40}$  \_\_\_\_\_

25]  $\frac{11}{30}$  \_\_\_\_\_

8]  $\frac{7}{12}$  \_\_\_\_\_

17]  $\frac{5}{18}$  \_\_\_\_\_

26]  $\frac{17}{72}$  \_\_\_\_\_

9]  $\frac{12}{35}$  \_\_\_\_\_

18]  $\frac{14}{45}$  \_\_\_\_\_

**Task 2:** Write the following fractions as the sum of **three** unit fractions.

1]  $\frac{47}{60}$  \_\_\_\_\_

4]  $\frac{17}{24}$  \_\_\_\_\_

7]  $\frac{13}{24}$  \_\_\_\_\_

2]  $\frac{17}{21}$  \_\_\_\_\_

5]  $\frac{17}{21}$  \_\_\_\_\_

8]  $\frac{143}{315}$  \_\_\_\_\_

3]  $\frac{71}{105}$  \_\_\_\_\_

6]  $\frac{29}{45}$  \_\_\_\_\_

9]  $\frac{29}{72}$  \_\_\_\_\_