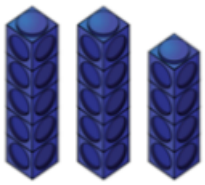
Converting mixed numbers to improper fractions and vice versa

This is for a little background knowledge: https://www.bbc.co.uk/bitesize/topics/zhdwxnb/articles/zxcfjty

This is the video you looked at last time: https://www.youtube.com/watch?v=GpumUOiGS6Q

Whitney converts the improper fraction $\frac{14}{5}$ into a mixed number using cubes.

She groups the cubes into 5s, then has 4 left over.



$\frac{5}{5}$ is the same as 1

$\frac{10}{5}$ is the same as 2

$\frac{14}{5}$ as a mixed number is $2\frac{4}{5}$

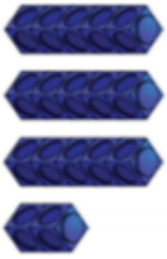
TASK 1

Use Whitney's method to convert $\frac{11}{3}$, $\frac{11}{4}$, $\frac{11}{5}$ and $\frac{11}{6}$

You could use cubes or any toy / food item and group into whole ones as Whitney did with her cubes.

Now we will look at the opposite

Whitney converts $3\frac{2}{5}$ into an improper fraction using cubes.



1 whole is equal to 5 fifths.

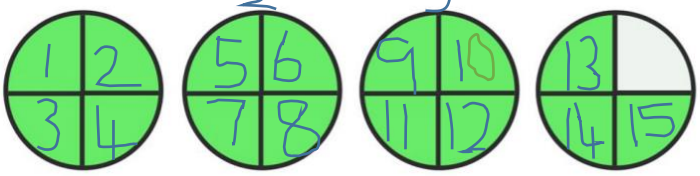
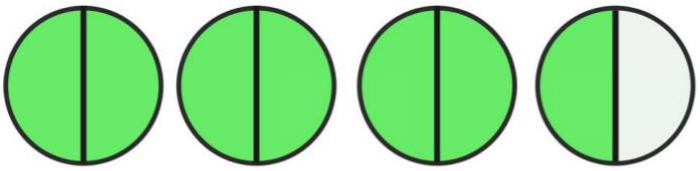
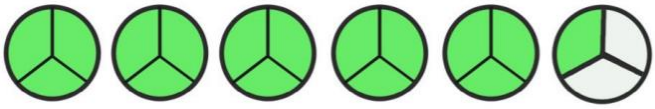
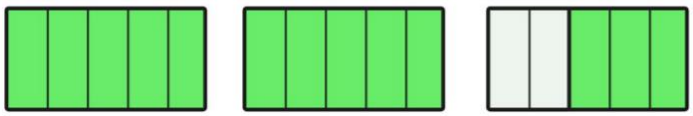
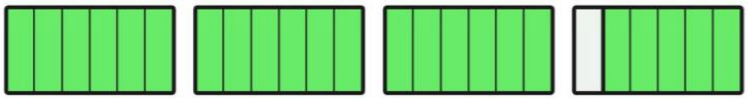
3 wholes are equal to 15 fifths.

15 fifths + two fifths = 17 fifths

TASK 2

Use Whitney's method to convert $2\frac{2}{3}$, $2\frac{2}{4}$, $2\frac{2}{5}$ and $2\frac{2}{6}$

Task 3

	Improper Fraction		Mixed Number
a)	15/ 16		3 ¾
b)			
c)			
d)			
			
			

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ANSWERS

TASK 1

Use Whitney's method to convert $\frac{11}{3}$, $\frac{11}{4}$, $\frac{11}{5}$ and $\frac{11}{6}$

3, 6, 9 = 3 whole ones and 2/3 left over = 3 2/3

4,8 = 2 whole ones and ¾ left over = 2 ¾

5, 10 = 2 whole ones and 1/5 left over = 2 1/5

6 = 1 whole one and 5/6 left over = 1 5/6

TASK 2

Use Whitney's method to convert $2\frac{2}{3}$, $2\frac{2}{4}$, $2\frac{2}{5}$ and $2\frac{2}{6}$

2 x 3 = 6/3 + 2/3 = 8/3

2 x 4 = 8/4 + 2/4 = 10/4

2 x 5 = 10/5 + 2/5 = 12/5

2 x 6 = 12/6 + 2/6 = 14/6

Task 3