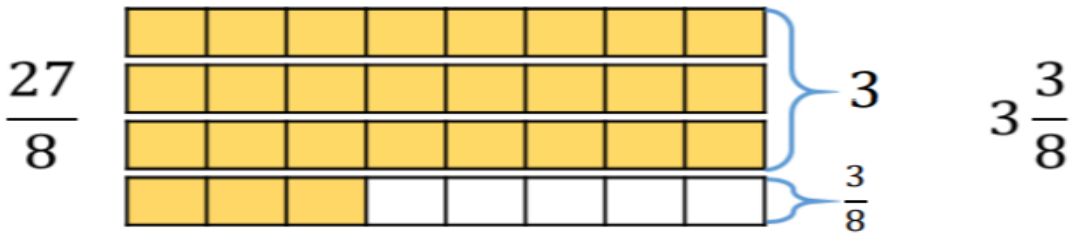
fConverting mixed numbers to improper fractions and vice versa

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

Tommy converts the improper fraction $\frac{27}{8}$ into a mixed number using bar models.

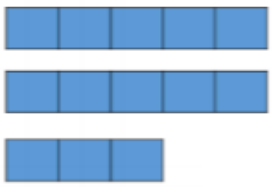


TASK 1 – Draw the bar model

Use Tommy's method to convert $\frac{25}{8}$, $\frac{27}{6}$, $\frac{18}{7}$ and $\frac{32}{4}$

Now we will look at the reverse

Jack uses bar models to convert a mixed number into an improper fraction.



$2\frac{3}{5} = \square$ wholes + $\square$ fifths

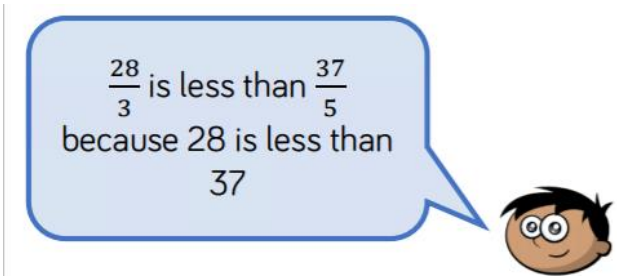
2 wholes = $\square$ fifths

$\square$ fifths + $\square$ fifths = $\square$ fifths

TASK 2 – Draw the bar models

Use Jack's method to convert $2\frac{1}{6}$, $4\frac{1}{6}$, $4\frac{1}{3}$ and $8\frac{2}{3}$

TASK 3



Do you agree with Amir?

Explain why.

ANSWERS

TASK 1

Use Tommy's method to convert $\frac{25}{8}, \frac{27}{6}, \frac{18}{7}$ and $\frac{32}{4}$

25/8 = 24/8 + 1/8 = 3 whole ones 1/8

27/6 = 24/6 + 3/6 = 4 whole ones 3/6 = 4 ½

18/7 = 14/7 + 4/7 = 2 whole ones and 4/7

32/4 = 8 whole ones

TASK 2

Use Jack's method to convert $2\frac{1}{6}, 4\frac{1}{6}, 4\frac{1}{3}$ and $8\frac{2}{3}$

2 1/6 = 2x6/6 + 1/6 = 12/6 + 1/6 = 13/6

4 1/6 = 4x6/6 +1/6 = 24/6 + 1/6 = 25/6

4 1/3 = 4x3/3 + 1/3 = 12/3 + 1/3 = 13/3

8 2/3 = 8x3/3 + 2/3 = 24/3 + 2/3 = 26/3

Task 3