

TRAINS

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I am learning to find where fractions live amongst whole numbers.

PRIOR KNOWLEDGE REQUIRED:

To be successful at this work sheet I must be quick and accurate at adding fractions like in the "wafers" activity.

1) Complete the table.

Question	Answer	Question	Answer
a) $\frac{1}{2} + \frac{1}{2} =$		f) $\frac{1}{6} + \frac{1}{6} =$	
b) $\frac{1}{5} + \frac{1}{5} =$		g) $\frac{1}{2} + \frac{1}{2} + \frac{1}{2} =$	
c) $\frac{1}{3} + \frac{1}{3} =$		h) $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} =$	
d) $\frac{1}{4} + \frac{1}{4} =$		i) $\frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5} =$	
e) $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} =$		j) $\frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} =$	

NEW STRATEGY USING MATERIALS:

Here are 2 king size chocolate bars and below that are 4 mini chocolate bars.

You should see that a mini chocolate bar is $\frac{1}{2}$ as big as a king size chocolate bar so you would need 2 mini chocolate bars to make 1 king size bar and 4 mini bars to make 2 king size bars. This can be written as $4 \times \frac{1}{2} = 2$.

2) The top line below is king size chocolate bars and the line below that is mini chocolate bars.

a) How many mini chocolate bars do you need to make 1 king size chocolate bar?

b) Fill in the gaps. $\frac{11}{4}$ is the same as and $\frac{\dots\dots\dots}{4}$.

3) The top line below is king size chocolate bars and the line below that is mini chocolate bars.

a) How many mini chocolate bars do you need to make 1 king size chocolate bar?

b) Fill in the gaps. $\frac{15}{\dots\dots\dots}$ is the same as and $\frac{\dots\dots\dots}{6}$.

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NEW STRATEGY USING IMAGING:

This is the size of a king size chocolate bar and a mini chocolate bar.

- 1) How many mini chocolate bars would you need to make 1 chocolate bar?
- 2) If you had 8 mini chocolate bars how many king size chocolate bars would that be the same as having?
- 3) If you had 12 mini chocolate bars how many king size chocolate bars would that be the same as having?
- 4) If you had 5 mini chocolate bars how many king size chocolate bars would that be the same as having?
- 5) If you had 11 mini chocolate bars how many king size chocolate bars would that be the same as having?

WORD PROBLEMS USING NUMBER PROPERTIES:

An improper fraction is one where the numerator is larger than the denominator e.g. $\frac{5}{4}$.

A mixed numeral is one that is made up of whole numbers and fractions e.g. $1\frac{1}{4}$.

- 6) Steve has seven half ($\frac{7}{2}$) eaten chocolate bars. Write how much chocolate Steven has as a mixed fraction.
- 7) Alice has 9 quarters of pizza ($\frac{9}{4}$). Write how much pizza Alice has as a mixed fraction.
- 8) Pete has 5 thirds of pie. Write how much pie Pete has as a mixed fraction.
- 9) Kelly has 10 fifths of cake. Write how much cake she has as a mixed fraction?