# <u>Task 1</u>

1

Complete the calculations.

Use the bar models to help you.







What could the missing numerators be?

Give six different possibilities.





Complete the calculations.

### <u>Task 2</u>

- Dora has  $2\frac{3}{8}$  litres of juice.
- She pours out  $\frac{9}{8}$  litres of juice.

How many litres of juice does she have left?



Fill in the missing numerators.



Here are some fraction cards.



Use the cards to write pairs of fractions with a total of 2







Annie and Dexter both have a skipping rope.

Annie's rope is  $\frac{3}{4}$  m shorter than Dexter's rope.

The ropes are  $\frac{13}{4}$  m altogether.

How long is each skipping rope?



<u>Challenge</u>



Instructions:

Cut along the DARK BLACK lines so you have squares.

You need to arrange the fractions so they are equal to the fraction next to it. Please don't stick down the squares until you are certain that they are equal.

3x|/8 = |/8+|/8+|/8

# ANSWERS

# Task 1- Answers

c)



Complete the calculations.

Use the bar models to help you.















$$\frac{3}{8} + \frac{3}{8} = \frac{13}{8}$$

What could the missing numerators be?

Give six different possibilities.

e.g.

 $\frac{1}{8} + \frac{12}{8} = \frac{13}{8}$   $\frac{4}{8} + \frac{4}{8} = \frac{13}{8}$   $\frac{2}{8} + \frac{11}{8} = \frac{13}{8}$   $\frac{5}{8} + \frac{6}{8} = \frac{13}{8}$   $\frac{3}{8} + \frac{10}{8} = \frac{13}{8}$   $\frac{7}{8} + \frac{6}{8} = \frac{13}{8}$ 

2

Complete the calculations.

# <u>Task 2</u>

Dora has 2  $\frac{3}{8}$  litres of juice. She pours out  $\frac{9}{8}$  litres of juice. How many litres of juice does she have left?

Fill in the missing numerators.



Here are some fraction cards.



Use the cards to write pairs of fractions with a total of 2





Annie and Dexter both have a skipping rope.

Annie's rope is  $\frac{3}{4}$  m shorter than Dexter's rope. The ropes are  $\frac{13}{4}$  m altogether.

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## Challenge – answers

### Here is one solution



How some children worked it out!

A Maths Focus Group from Reigate Priory School wrote up the strategy they used to complete the jigsaw:

First we found the corners, which were pretty easy as they had to have 2 black triangles.

Then we did the edges which have 1 black triangle but we found that we had 4 spare, 1 from each edge.

We realised that these probably had to go together in the middle of the jigsaw, ie: with black triangles touching.

We then worked out the 'inner' corners, ie: the squares that had to have 2 triangles matching, and then we worked out the squares that had to join these up.

After that there was only  $1\ {\rm piece}\ {\rm left}$  to fit in the middle!!

Jamie from Great Sankey High School described his strategy:

### I looked at matching pairs first, and then tried to match them up into a group. I then saw a pattern and worked from that to complete the jigsaw.

George and Sophie from Hoyle Court Primary in Baildon, Shipley, West Yorkshire started off finding the more obvious equivalent fractions, and formed small sections of the jig-saw. Then they realised they could start to piece sections together. Eventually they recognised the pattern of the triangles around the edge. Their solution is below. Well done to both of them.