



# THEBP Number Partners Challenge 2016 Partner Tip Sheet



## Round One: Heads and Legs

This challenge is all about trial and improvement. You should **spend no more than 30 minutes** on the challenge as a whole – try and get as far as you can, but incomplete entries can still be submitted.

You will need:

- Entry sheet
- Scrap paper/white boards for your working out



All of the activities featured in the challenge this year are adapted from resources from nrich at the University of Cambridge - <http://nrich.maths.org>

### The Heads and Legs Problem

On a farm there were some hens and sheep. Altogether there were 8 heads and 22 legs.

How many hens were there?

### Tips for volunteers

Use the pictures as visual aids if needed – you could print copies of the pictures or start by asking the children to draw a hen and a sheep, and write underneath the number of legs each will have.

The task will involve trial and improvement. You could start by asking the team to work out how many legs there would be if all of the 8 heads on the farm belonged to sheep. Does this equal 22 legs?

Now ask them to do the same for 8 hens. Does this equal 22 legs?

Help the team make changes to these combinations until they have a total of 22 legs, and complete the entry form.

For full points, teams should create a number sentence (sum) to demonstrate their working. For example, 8 hens x 2 legs = 16 legs.

**Don't forget to tweet us during the Number Partners Challenge – why not send us photos of your team taking part, feedback on the activities or some encouragement for your team using #CountMeIn @NumberPartners**

### Send your entry to:

Anita Kessie, Curriculum Project Coordinator

Email: [Anita.Kessie@thebp.co.uk](mailto:Anita.Kessie@thebp.co.uk)

Fax: 020 7375 2323

Tower Hamlets Education Business Partnership

First Floor, Norvin House

45-55 Commercial Street

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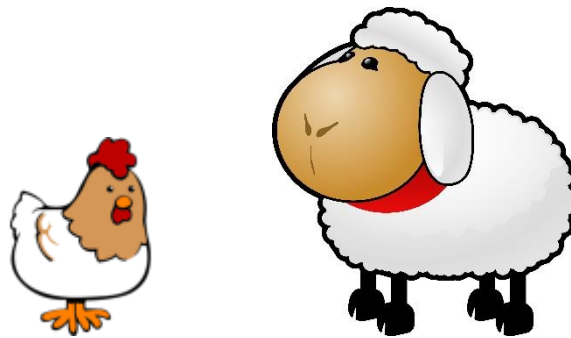
**Final deadline for all three activities is Friday 20<sup>th</sup> May 2016.**

**Round One: Heads and Legs**

**On a farm there were some hens and sheep.**

**Altogether there were 8 heads and 22 legs.**

**How many hens were there?**



You could start by thinking about how many legs there would be if all of the 8 heads on the farm belonged to sheep. What about if there were 8 hens instead?



What could you try next to get the right number of legs?



# THEBP Number Partners Challenge 2016



## Team Entry Sheet Round One

<b>Team Name:</b>		
<b>School Name</b>	<b>Pupil Names</b>	<b>Volunteer Company</b>

How many legs do 8 hens have?		/1
How many legs do 8 sheep have?		/1
If there are 22 legs on the farm, how many hens must there be?		/2
Can you write a number sentence to show your workings out?		/2

<b>TOTAL SCORED</b>	<b>/6</b>
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**Don't forget to submit this entry form!**

### Send your entry to:

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