

Discussion Problems

Step 1: Equal Groups

Teaching note: For Q2, an A3 copy on card and scissors may be necessary. Children may need help constructing the spinner.

National Curriculum Objectives:

Mathematics Year 3: (3C6) [Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables](#)

Mathematics Year 3: (3C7) [Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods](#)

About this resource:

This resource has been designed for pupils who understand the concepts within [this step](#). It provides pupils with more opportunities to enhance their reasoning and problem solving skills through more challenging problems. Pupils can work in pairs or small groups to discuss with each other about how best to tackle the problem, as there is often more than one answer or more than one way to work through the problem.

There may be various answers for each problem. Where this is the case, we have provided one example answer to guide discussion.

We recommend self or peer marking using the answer page provided to promote discussion and self-correction.

More [Year 3 Multiplication and Division](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

Equal Groups

1. In her flower shop, Jen sells three different bouquets. She orders enough flowers to make an equal number of each bouquet.

Jen's Flowers
Sunflowers – bouquet of 3
Tulips – bouquet of 4
Roses – bouquet of 8



Investigate the total number of flowers she could order to be able to make equal numbers of the three bouquets.

DP

2. With a partner, play the game below.

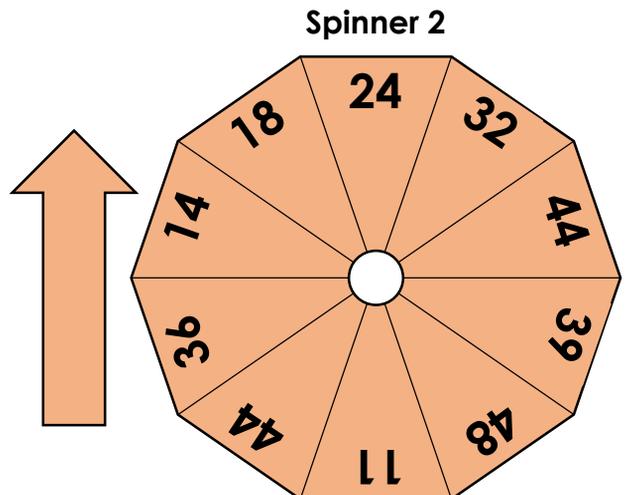
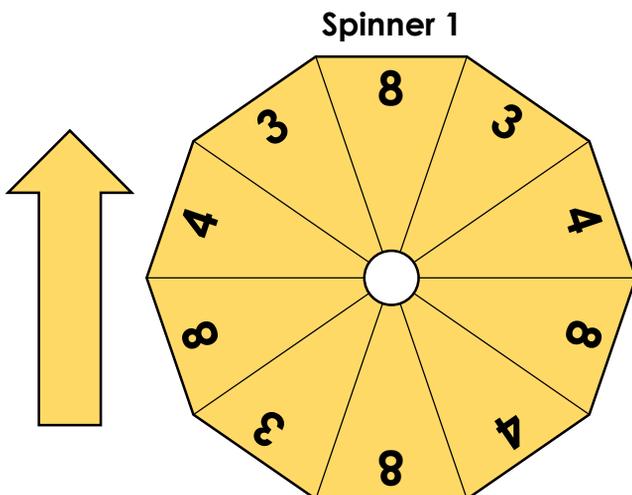
Cut the spinners out and take it in turns to spin!

Spinner 1 gives you the number of equal groups you need to make.

Spinner 2 gives you the amount you need to group.

A point is received when a player can make equal groups with the numbers they have landed on.

If the groups are not equal or there is a remainder, no point is awarded.



DP

Equal Groups

1. In her flower shop, Jen sells three different bouquets. She orders enough flowers to make an equal number of each bouquet.

Jen's Flowers
Sunflowers – bouquet of 3
Tulips – bouquet of 4
Roses – bouquet of 8



Investigate the total number of flowers she could order to be able to make equal numbers of the three bouquets. **Various answers, for example:**
4 equal groups of 3 = 12, 4 equal groups of 4 = 16, 4 equal groups of 8 = 32. Jen would need to order 60 flowers in total.

DP

2. With a partner, play the game below.

Cut the spinners out and take it in turns to spin!

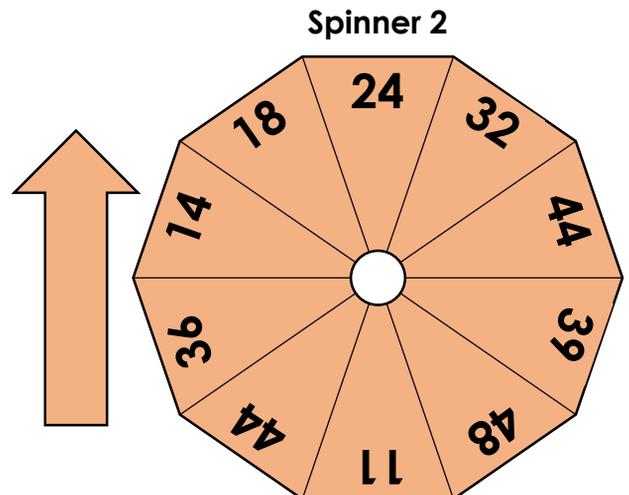
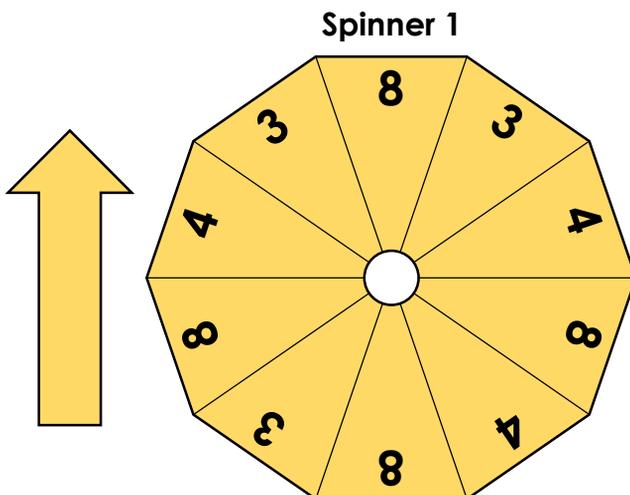
Spinner 1 gives you the number of equal groups you need to make.

Spinner 2 gives you the amount you need to group.

A point is received when a player can make equal groups with the numbers they have landed on.

If the groups are not equal or there is a remainder, no point is awarded.

Various answers, for example: 24 grouped into 8 = 3



DP