Food Collection 2

A Numicon problem-solving and dividing activity for pairs

What you will need

- One copy of this sheet per pair (**please note:** this is an A3 document and needs to be printed at 100%)
- 2 Numicon Spinners per pair, with the Spinner Overlays from this sheet cut out
- Numicon Shapes 1–10
- Numicon 10s Number Line
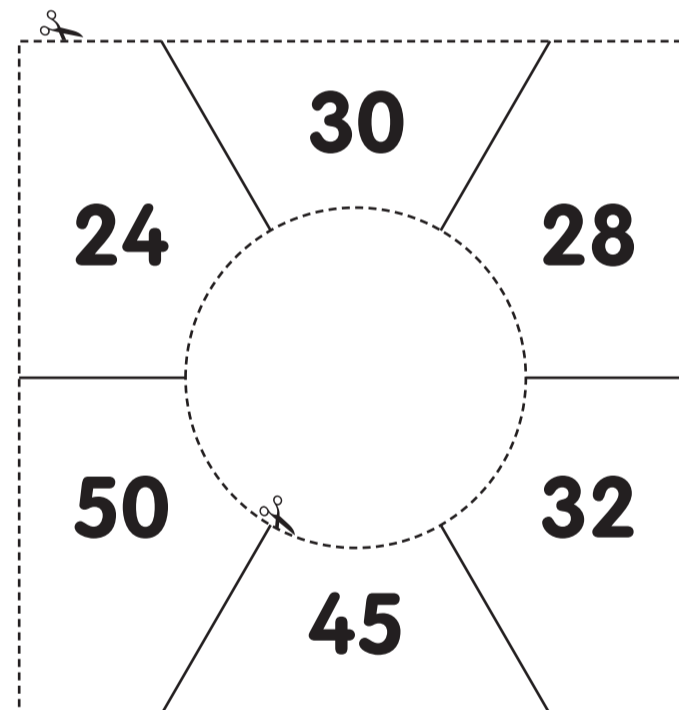- Bag images from this sheet cut out

What to do

- Your class have been collecting food items on a big shopping trip for a class party.
- Your class have been asked to pack the items into bags ready to carry back to school. You need to divide up the items so that each bag is not too heavy.
- The bags can each hold different numbers of items.
- Spin Spinner A to find out how many items you have to pack. Spin Spinner B and take the cut-out bag with the matching Numicon Shape.
- Work in pairs to find the amount of items on the number line and then use the Numicon Shapes to show how many of these bags you can fill.
- For example, if you spin 30 on Spinner A and 6 on Spinner B, you would place five 6-Shapes on the number line to show that 5 bags would be needed for 30 items.
- See if there are any items left over. How many are left? Use what you know about dividing numbers to check your answers.
- Repeat the activity spinning different numbers.

Extensions and questions

- Repeat the activity doubling the number on Spinner A.
- How many bags can you fill?
- How many items do you have left over?
- What is … divided by…?
- What is … multiplied by…?
- Is … divisible by…?
- Are there any remainders or items left over?
- If you can't fill bags exactly based on the bag size on the spinner, which bag size would work to fill them all up?
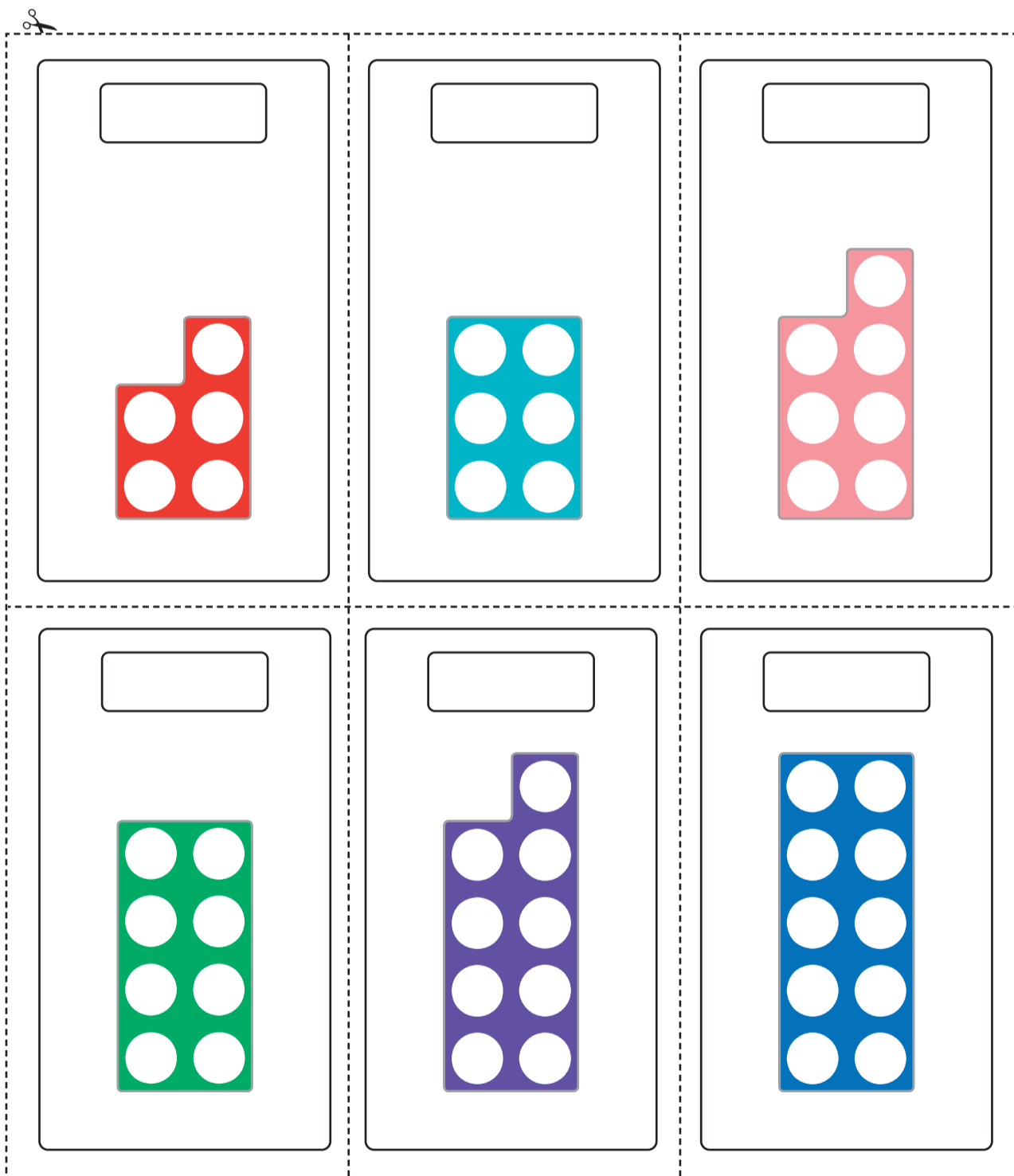
Spinner A: number of items

Spinner B: type of bag