

Discussion Problems

Step 1: Unit and Non-Unit Fractions

Teaching note: For Q1, an A3 copy on card and scissors may be necessary.

National Curriculum Objectives:

Mathematics Year 3: (3F1b) [Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators](#)

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 Fractions](#) resources.

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

Unit and Non-Unit Fractions


1. Match the fractions to their representations.

eight tenths




one sixth

seven eighths





three quarters



four tenths




six ninths


one fifth


two quarters



three eighths



five twelfths



one half

DP

2. Shade between 35 and 45 parts in total on the shapes below and sort them into the Venn diagram, choosing from the given headings.

Odd number of parts shaded.

Even number of parts shaded.

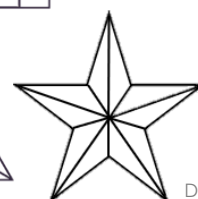
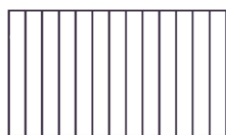
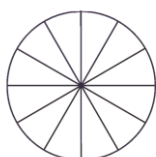
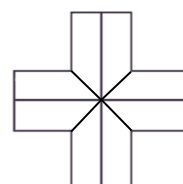
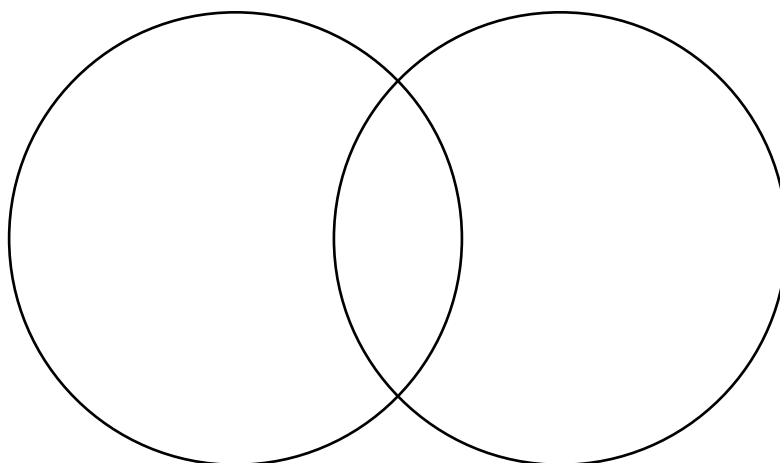
Number of parts shaded is a multiple of 3.

Parts shaded give a digit sum greater than ____.

Non-unit fractions with a numerator less than 6.

Unit fractions with denominator greater than 5.

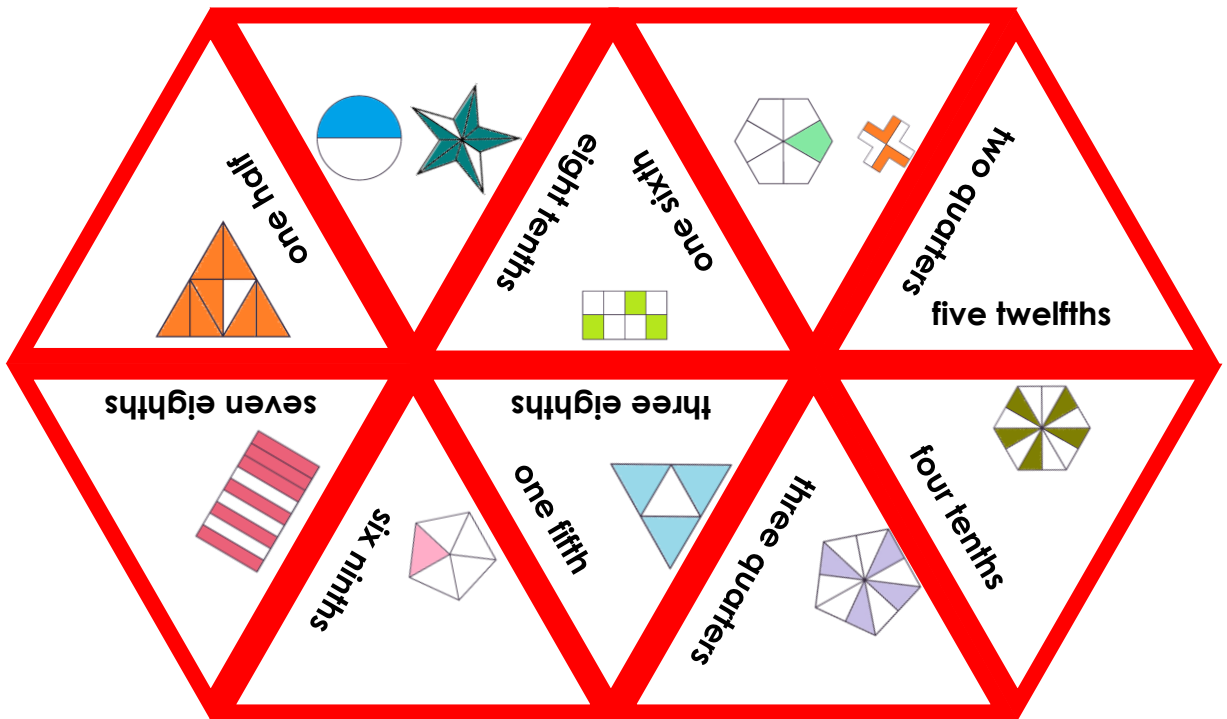
Number of parts shaded is a multiple of 2.



DP

Unit and Non-Unit Fractions

1. Match the fractions to their representations.



DP

2. Shade between 35 and 45 parts in total on the shapes below and sort them into the Venn diagram, choosing from the given headings.

Unit fractions with denominator greater than 5.

Even number of parts shaded.

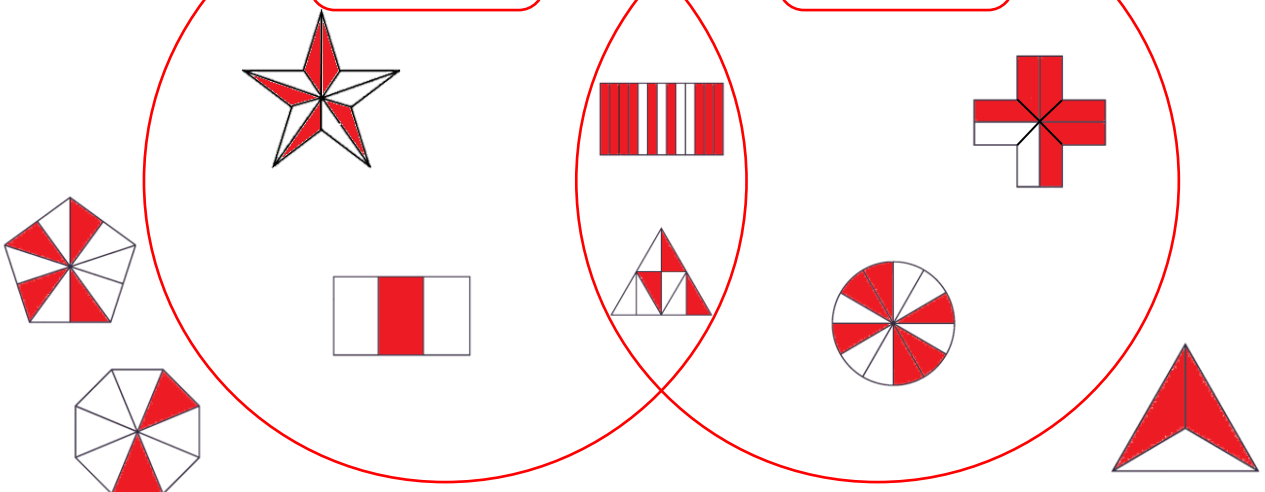
Number of parts shaded is a multiple of 2.

Parts shaded give a digit sum greater than ____.

Non-unit fractions with a numerator less than 6.

Odd number of parts shaded.

Number of parts shaded is a multiple of 3.



DP