Discussion Problems
Step 1: Equivalent Fractions 1

National Curriculum Objectives:

Mathematics Year 3: (3F2) Recognise and show, using diagrams, equivalent 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.

Equivalent Fractions 1

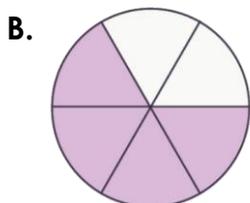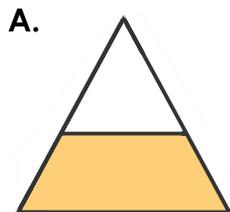**1. Look at the equivalent fractions below. What patterns can you spot?**

A. $\dfrac{1}{2} = \dfrac{2}{4} = \dfrac{4}{8}$
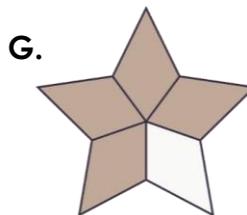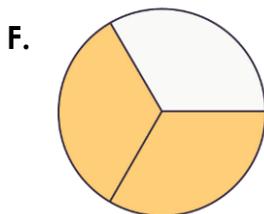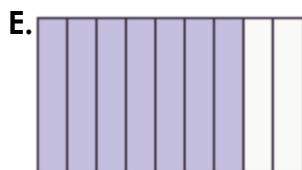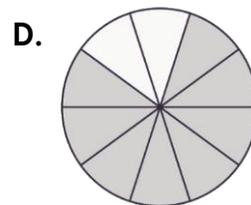
B. $\dfrac{1}{2} = \dfrac{2}{4} = \dfrac{3}{6}$

C. $\dfrac{1}{4} = \dfrac{2}{8} = \dfrac{3}{12}$

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2. Match the fractions below. Which fractions are the odd ones out? Explain why.

A.

B.

C. $\dfrac{8}{12}$

D.

E.

F.

G.

H. $\dfrac{8}{10}$

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Equivalent Fractions 1

1. Look at the equivalent fractions below. What patterns can you spot?

A. $\dfrac{1}{2} = \dfrac{2}{4} = \dfrac{4}{8}$

B. $\dfrac{1}{2} = \dfrac{2}{4} = \dfrac{3}{6}$

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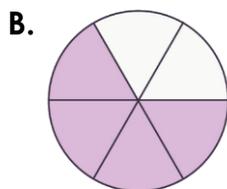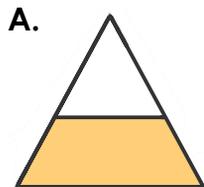
Various answers, for example:
A. Both the numerator and denominator double each time.
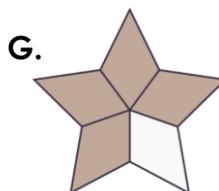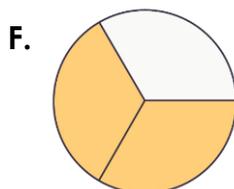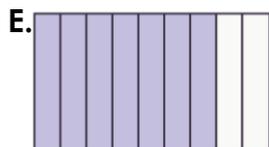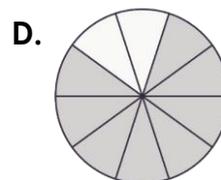**B. Each time the numerator increases by 1, the denominator increases by 2.**
C. The denominator increases by 4 each time.

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2. Match the fractions below. Which fractions are the odd ones out? Explain why.

A.

B.

C. $\dfrac{8}{12}$

D.

E.

F.

G.

H. $\dfrac{8}{10}$

B, C and F are equivalent to $\dfrac{2}{3}$, and D, G and H are equivalent to $\dfrac{4}{5}$.

A and E are the odd ones out because A is split unequally and E does not have an equivalent fraction shown.

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Discussion Problems – Equivalent Fractions 1 ANSWERS