Year 4 – Spring Block 3 – Fractions – Equivalent Fractions 2

About This Resource:

This PowerPoint has been designed to support your teaching of this small step. It includes a starter activity and an example of each question from the Varied Fluency and Reasoning and Problem Solving resources also provided in this pack. You can choose to work through all examples provided or a selection of them depending on the needs of your class.

National Curriculum Objectives:

Mathematics Year 4: (4F2) Recognise and show, using diagrams, families of common equivalent fractions

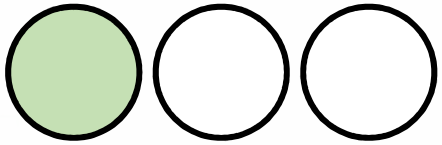
More Year 4 Fractions resources.

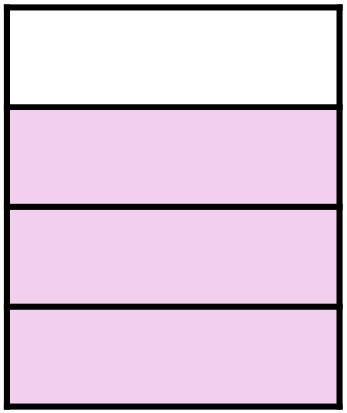
Did you like this resource? Don't forget to review it on our website.

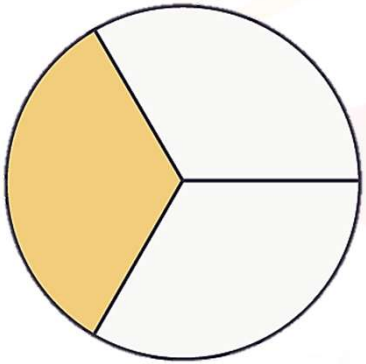
Step 3: Equivalent Fractions 2

Introduction

Circle the different representations of $\frac{1}{3}$ below.







Introduction

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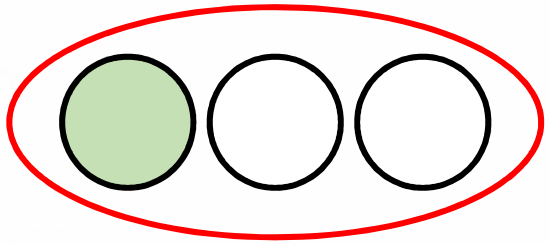
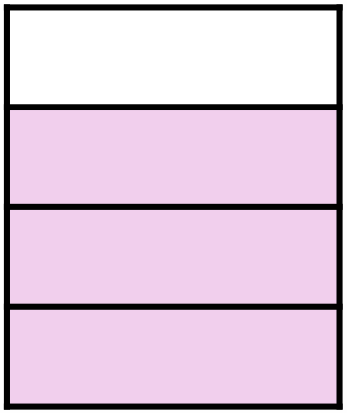
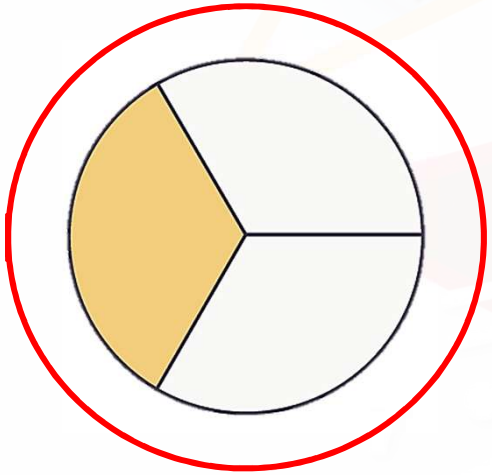
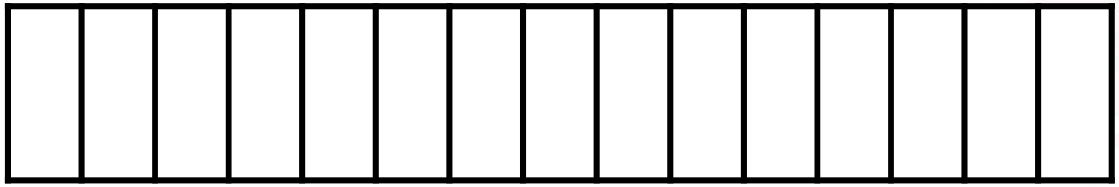






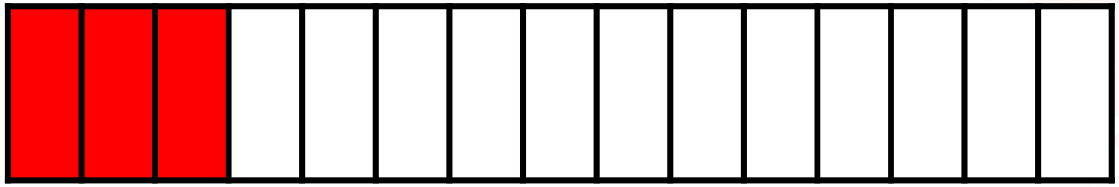
Varied Fluency 1

Complete the diagram to show the equivalent fraction.



Varied Fluency 1

Complete the diagram to show the equivalent fraction.



Varied Fluency 2

What have the numerator and denominator been multiplied by to make the equivalent fraction?

$$\frac{1 \times \square}{7 \times \square} = \frac{4}{28}$$

Varied Fluency 2

What have the numerator and denominator been multiplied by to make the equivalent fraction?

$$\frac{1}{7} \times \frac{\boxed{4}}{\boxed{4}} = \frac{4}{28}$$

Varied Fluency 3

Circle the fractions which are equivalent to $\frac{1}{4}$.

$\frac{4}{16}$ $\frac{4}{8}$ $\frac{2}{8}$

$\frac{2}{5}$ $\frac{3}{12}$

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Varied Fluency 4

Write a fraction which is equivalent to $\frac{1}{6}$.

$$\frac{\square}{\square}$$

Varied Fluency 4

Write a fraction which is equivalent to $\frac{1}{6}$.

Various answers, for example:

$$\frac{3}{18}$$

Reasoning 1

Circle the odd one out.

$\frac{4}{32}$ $\frac{3}{24}$ $\frac{2}{9}$

$\frac{2}{16}$ $\frac{5}{40}$ $\frac{1}{8}$

Explain your reasoning.

Reasoning 1

Circle the odd one out.

$\frac{4}{32}$ $\frac{3}{24}$ $\frac{2}{9}$

$\frac{2}{16}$ $\frac{5}{40}$ $\frac{1}{8}$

Explain your reasoning.

$\frac{2}{9}$ **is the odd one out because…**

Reasoning 1

Circle the odd one out.

$\frac{4}{32}$ $\frac{3}{24}$ $\frac{2}{9}$

$\frac{2}{16}$ $\frac{5}{40}$ $\frac{1}{8}$

Explain your reasoning.

$\frac{2}{9}$ is the odd one out because it is not equivalent to the other fractions.

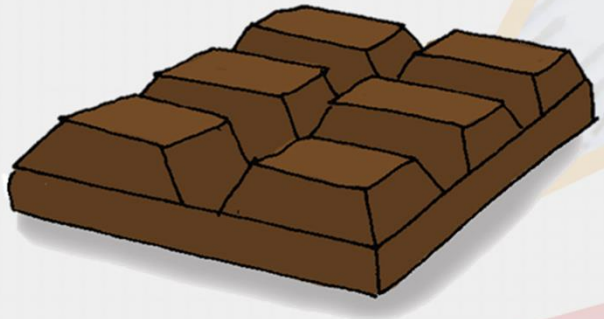
Problem Solving 1

Jenny, Finn and Greg are sharing some chocolate.

Jenny eats $\frac{1}{8}$ of the chocolate.

Finn eats $\frac{3}{24}$.

Greg eats $\frac{4}{32}$.



Did everyone get an equal share?

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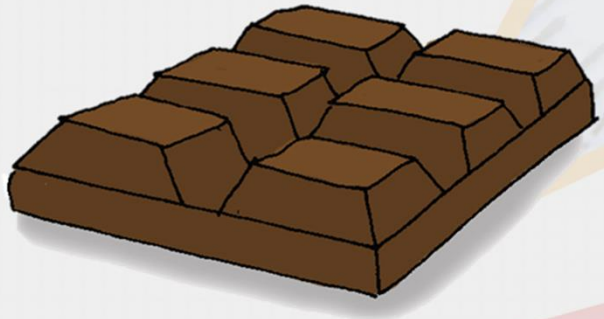

Did everyone get an equal share?

Yes because $\frac{1}{8}$, $\frac{3}{24}$ and $\frac{4}{32}$ are equivalent fractions.

Reasoning 2

Look at the sequence below.

$$\frac{1}{10} \quad \frac{2}{20} \quad \frac{3}{30}$$

Milly says,

The next fraction is $\frac{4}{31}$.

Alex says,

The next fraction is $\frac{4}{40}$.

Who is correct? Convince me.

Reasoning 2

Look at the sequence below.

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Who is correct? Convince me.

Alex is correct because…

Reasoning 2

Look at the sequence below.

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Milly says,

The next fraction is $\frac{4}{31}$.

Alex says,

The next fraction is $\frac{4}{40}$.

Who is correct? Convince me.

Alex is correct because $\frac{4}{40}$ is equivalent to $\frac{1}{10}$.