## Year 4 Maths

## Power Up

Work out the fractions and complete the number sentences.

$$
\begin{aligned}
& \frac{1}{2} \text { of } 20=\square \quad \frac{1}{4} \text { of } 20=\square
\end{aligned}
$$

$$
\begin{aligned}
& \frac{1}{4} \text { of } 16=\square \\
& \frac{1}{8} \text { of } 16=\square
\end{aligned}
$$

Look at your answers for each pair of number sentences and compare them. Discuss them with your partner. Describe any pattern you can see.

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LO: To recognise equivalent fractions

Re-cap
What is a fraction?
What does the word equivalent mean?

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## LO: To recognise equivalent fractions

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Some fractions are written with different numerators and denominators but they represent the same amount of a whole.

How would we write this fraction? What else do you notice?


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## LO：To recognise equivalent fractions



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## LO: To recognise equivalent fractions

Lets look at these together:

(1) a) Who is correct, Lee or Mr Lopez?

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## LO: To recognise equivalent fractions $\times \div$

Share
a)


Look at the fractions $\frac{1}{2}$ and $\frac{2}{4}$.
They have different numerators and denominators, but show the same distance.

Both Lee and Mr Lopez are correct.
Look at the lines drawn on the track. Write 2 or more fractions that are equal to $\frac{1}{2}$.

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## LO: To recognise equivalent fractions


$\frac{1}{2}=\frac{2}{4} \quad \frac{1}{2}=\frac{4}{8} \quad \frac{1}{2}=\frac{8}{16}$
These are all equivalent fractions.

I folded a strip of paper to help me find the different fractions.

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LO: To recognise equivalent fractions
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## Success Criteria:

- Identify the fraction of the shape that is shaded
- Match up the fractions that are the same size
- Record the equivalent fractions


## Year 4 Maths LO: To recognise equivalent fractions

## Fluency

Lexi folds a paper strip into 3 equal parts. She colours I of the parts.

She folds the strip in half, across the length, then unfolds it.
a) What fraction of the strip is coloured?
b) Write an equivalent fraction for this.


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## LO: To recognise equivalent fractions

Fluency Jamilla has a different paper strip.
She folds the strip into 5 equal parts.
She colours I part.


She folds the strip in half, across the length.
a) What fraction of the strip is coloured?
b) Write an equivalent fraction for this.


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LO: To recognise equivalent fractions
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## Reasoning

Explain how the diagram shows both $\frac{2}{3}$ and $\frac{4}{6}$


Which is the odd one out? Explain why


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## Problem Solving



Teddy makes this fraction:


Mo says he can make an equivalent fraction with a denominator of 9

Dora disagrees. She says it can't have a denominator of 9 because the denominator would need to be double 3

Who is correct? Who is incorrect? Explain why.

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## Answers - Fluency

Lexi folds a paper strip into 3 equal parts.
She colours I of the parts.
She folds the strip in half, across the length. then unfolds it.
a) What fraction of the strip is coloured? $\frac{2}{6}$
b) Write an equivalent fraction for this.

$$
\frac{1}{3}=\frac{2}{6}
$$

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Fluency Jamilla has a different paper strip.
She folds the strip into 5 equal parts.
She colours I part.


She folds the strip in half, across the length. 10
a) What fraction of the strip is coloured?
b) Write an equivalent fraction for this.


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## Reasoning

Explain how the diagram shows both $\frac{2}{3}$
and $\frac{4}{6}$


The diagram is divided in to six equal parts and four out of the six are yellow. You can also see three columns and two columns are yellow.

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$\boxplus \square$
LO: To recognise equivalent fractions

## Reasoning

Which is the odd one out? Explain why



This is the odd one out because the other fractions are all equivalent to $\frac{1}{2}$

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## LO: To recognise equivalent fractions

## Problem Solving



Teddy makes this fraction:


Mo says he can make an equivalent fraction with a denominator of 9

Dora disagrees. She says it can't have a denominator of 9
 because the denominator would need to be double 3

Who is correct? Who is incorrect? Explain why.

Mo is correct. He could make three ninths which is equivalent to one third.

Dora is incorrect. She has a misconception that you can only double to find equivalent fractions.

