

Friday



Fractions

Objectives:	RAG
To understand the whole.	
Compare and order mixed numbers.	
Understand improper fractions.	
Convert improper fractions to mixed numbers and reverse.	
Add two or more fractions.	
Subtract two fractions.	

Key Vocabulary and definitions:

Fraction	Equivalent
Denominator	
Numerator	
Part	
Whole	
Quantity	

Challenges:
Which shapes have been split into equal parts?

Complete the part-whole models to show the wholes and fractions in the mixed numbers.

If I split a shape into 4 parts, I have split it into quarters.

Is Tiny's statement always true, sometimes true or never true?
How do you know?

Targets: (Highlight LO when completed.)

- o Compare and order mixed numbers.
- o Equivalent fractions on a number line
- o Add fractions and mixed numbers.

Vocabulary

- Fraction
- part
- whole
- Quantity
- numerical
- Convert
- numerator
- compare
- contrast
- denominator

10.03.2023


To explore equivalent fractions


KEY


 Try mentally first

 Try a written method


$420 \div 60 = \square$


 B. $\square - 3192 = 6792$


 A. $420 + 6 = \square$

 B. $338 - 192 = \square$

$300 \times 6 = \square$

 D. $39 \times 6 = \square$

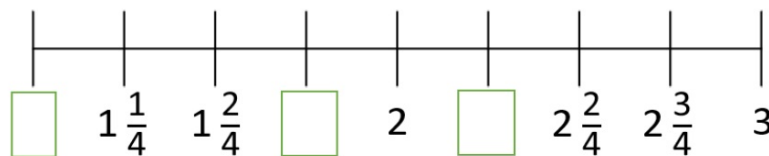
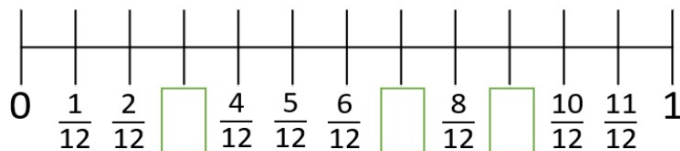
 C. $30 + 45 = \square$

 D. $10 \times \square = 100$

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1) Complete the number lines.



Vocabulary

Fraction

part

whole

Quantity

numerical

Convert

numerator

compare

contrast

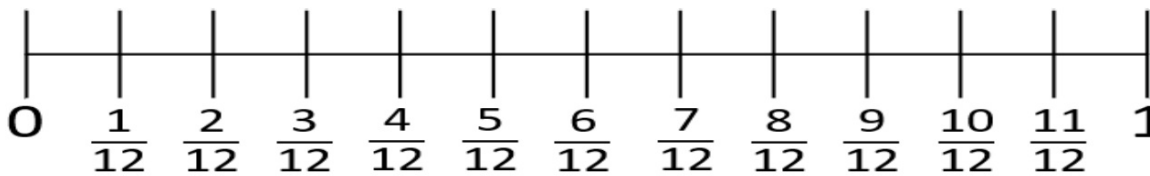
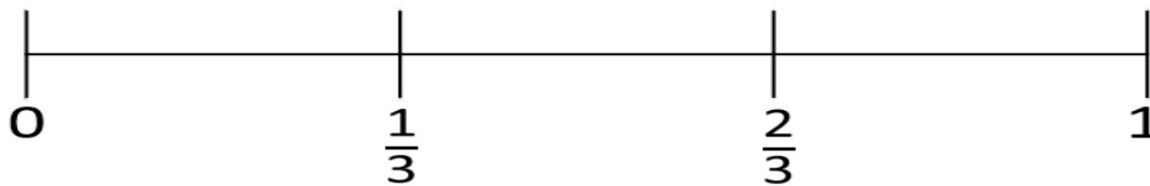
denominator

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To explore equivalent fractions

$$\frac{1}{3} = \square$$

$$\frac{8}{12} = \square$$



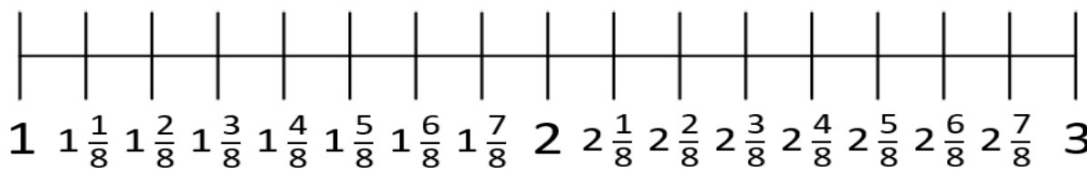
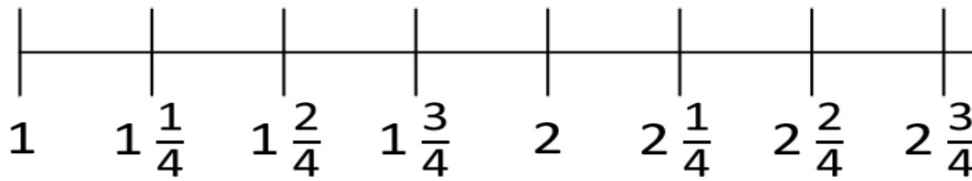
Vocabulary

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To explore equivalent fractions

$$1 \frac{2}{4} = \boxed{} \qquad 2 \frac{6}{8} = \boxed{}$$

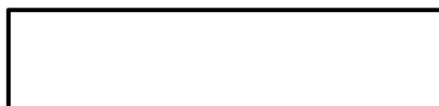
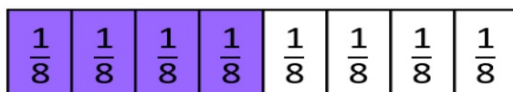
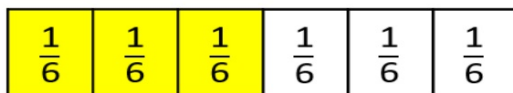
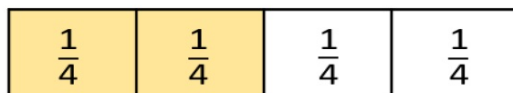
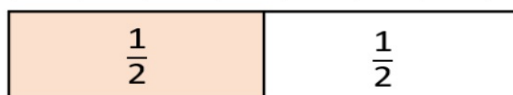


Vocabulary

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To explore equivalent fractions



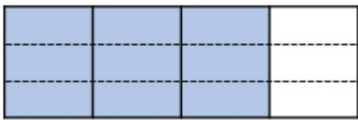
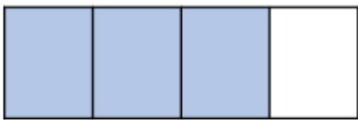
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To explore equivalent fractions

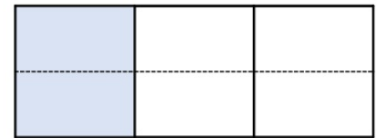
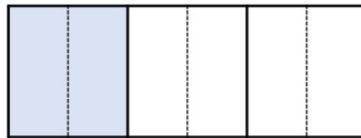
Hint: What you do to the bottom you must do to the top.



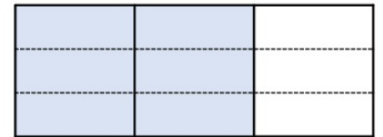
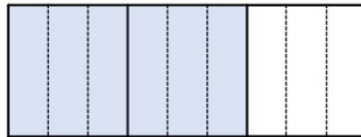
$$\frac{3}{4} = \frac{\square}{8}$$

$$\frac{3}{4} = \frac{\square}{12}$$

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

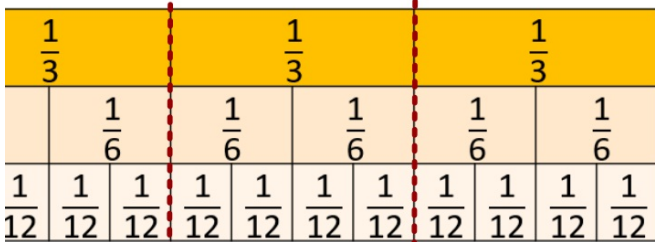


$$\frac{2}{3} = \frac{\square}{9}$$



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$$\frac{2}{3} = \frac{\square}{6} = \frac{\square}{12}$$

Dexter is finding equivalent fractions to



Do you agree with Dexter that $\frac{2}{5}$ is equal to $\frac{2}{4}$

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To explore equivalent fractions

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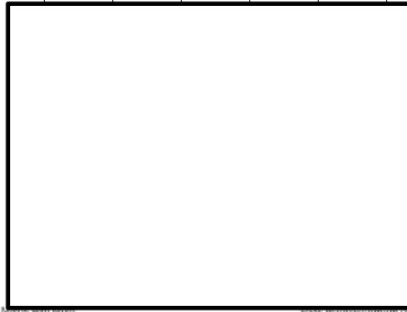
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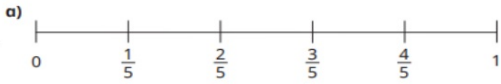
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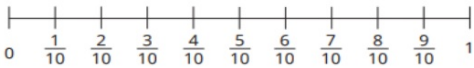
Gold

Bronze

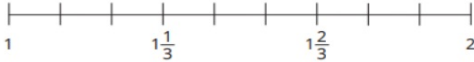
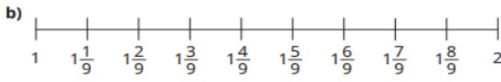
Use the number lines to complete the equivalent fractions.



Deep dive: Can you explain how you did this?



$$\frac{1}{5} = \frac{\square}{10} \quad \frac{\square}{5} = \frac{4}{10} \quad \frac{3}{5} = \frac{\square}{10} \quad \frac{4}{\square} = \frac{8}{\square}$$

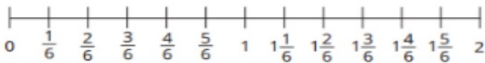


$$1\frac{3}{9} = 1\frac{\square}{3} \quad 1\frac{6}{9} = 1\frac{\square}{3}$$

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To explore equivalent fractions

Silver



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

Use the fraction wall to complete the equivalent fractions.



a) $\frac{1}{2} = \frac{\square}{4}$

c) $\frac{2}{4} = \frac{4}{\square}$

e) $\frac{\square}{8} = \frac{3}{4}$

b) $\frac{1}{2} = \frac{\square}{8}$

d) $\frac{2}{8} = \frac{\square}{4}$

f) $\frac{2}{2} = \frac{\square}{4} = \frac{\square}{8}$

Deep dive: How do you know?

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To explore equivalent fractions

Are the statements always, sometimes or never true?

Circle your answer.

Draw a diagram to support your answer.

a) Fractions equivalent to one half have even numerators.

always

sometimes

never

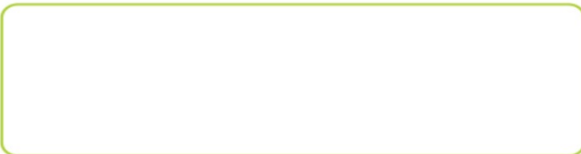


b) If a fraction is equivalent to one half, the denominator will be double the numerator.

always

sometimes

never



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GD

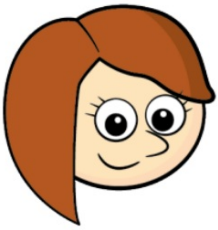


To find all the fractions equivalent to a given fraction, you just keep doubling the numerators and denominators.

Do you agree with Tiny? _____

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To explore equivalent fractions



$3 \frac{1}{3}$ is equal to $6 \frac{2}{6}$

A large, empty rectangular box with a black border, intended for a student to write their work or answer.

