

Year 4 Maths Thursday

28.1.21

Fractions

Recall:

Can you think of some equivalent fractions for **these?** (remember to multiply or divide the denominator by the same amount as you divide or multiply the numerator)

$1/3$

$2/4$

$1/5$

Recall:

Can you think of some equivalent fractions for these? (remember to multiply or divide the denominator by the same amount as you divide or multiply the numerator)

Possible Answers:

$1/3$

$2/6$

$4/12$

$3/9$

$5/15$

$2/4$

$1/2$

$4/8$

$6/12$

$10/20$

$1/5$

$2/10$

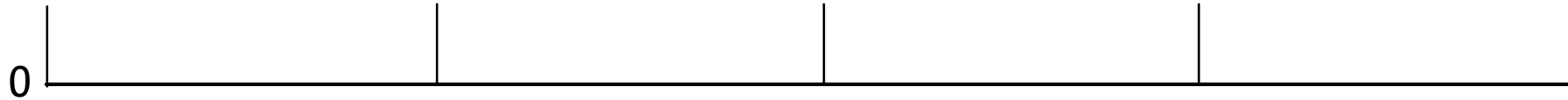
$3/15$

$4/20$

$5/25$

LO: I can find equivalent fractions (Part 2)

Guided Practice



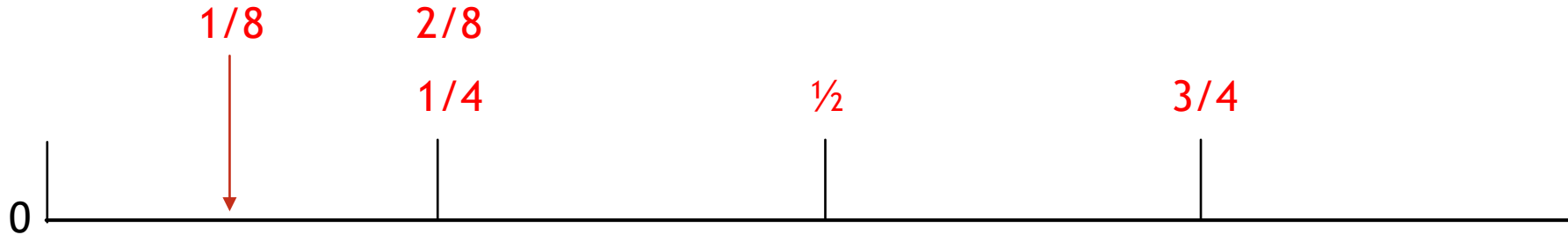
This number line represents a whole.

Where would we place these fractions?

$\frac{3}{4}$ $\frac{1}{2}$ $\frac{1}{4}$ $\frac{2}{8}$ $\frac{1}{8}$

Are any of them equivalent?

Guided Practice



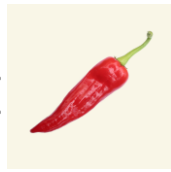
This number line represents a whole.

Where would we place these fractions?

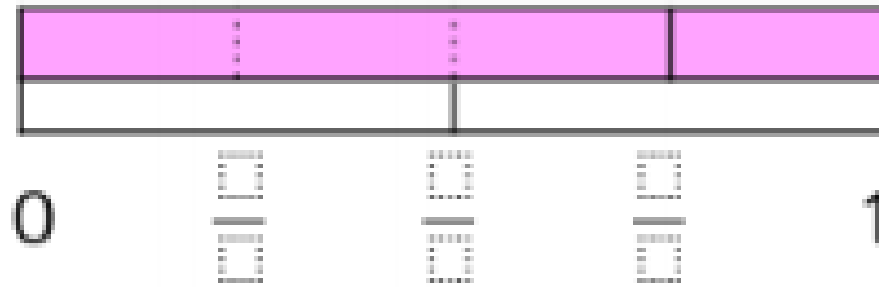
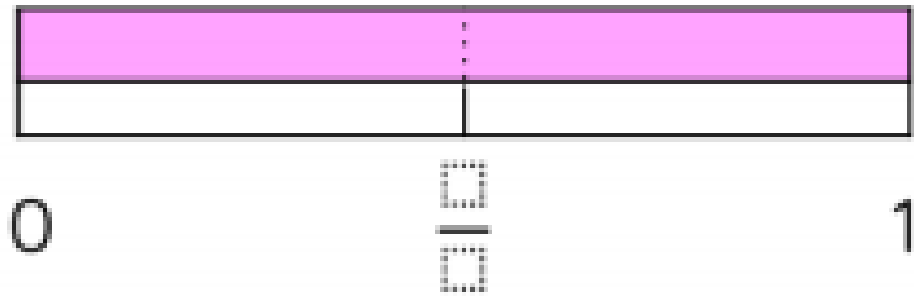
$3/4$ $1/2$ $1/4$ $2/8$ $1/8$

Are any of them equivalent? $2/8 + 1/4$

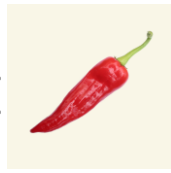
Intelligent Practice:



Use the models on the number line to identify the missing fractions. Which fractions are equivalent?

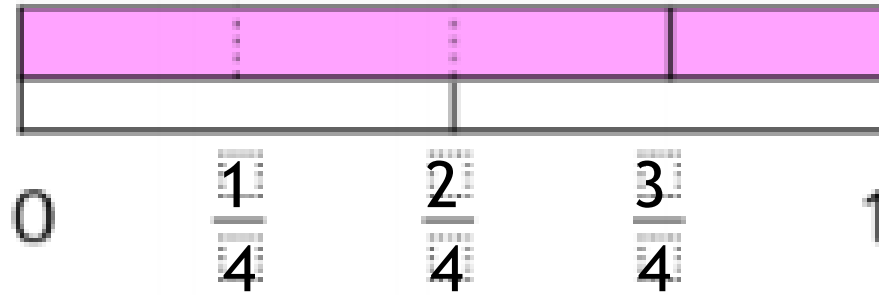
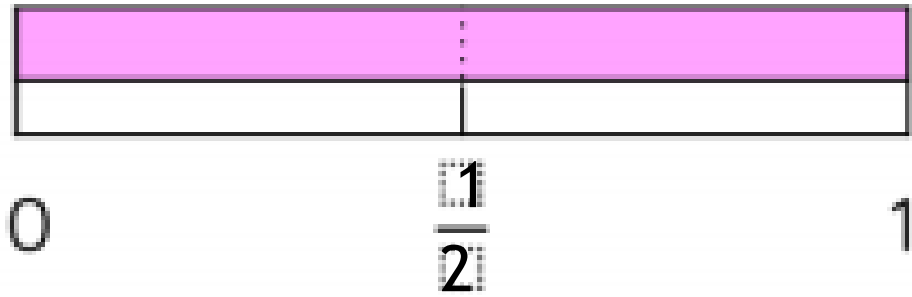


Intelligent Practice:



Answers

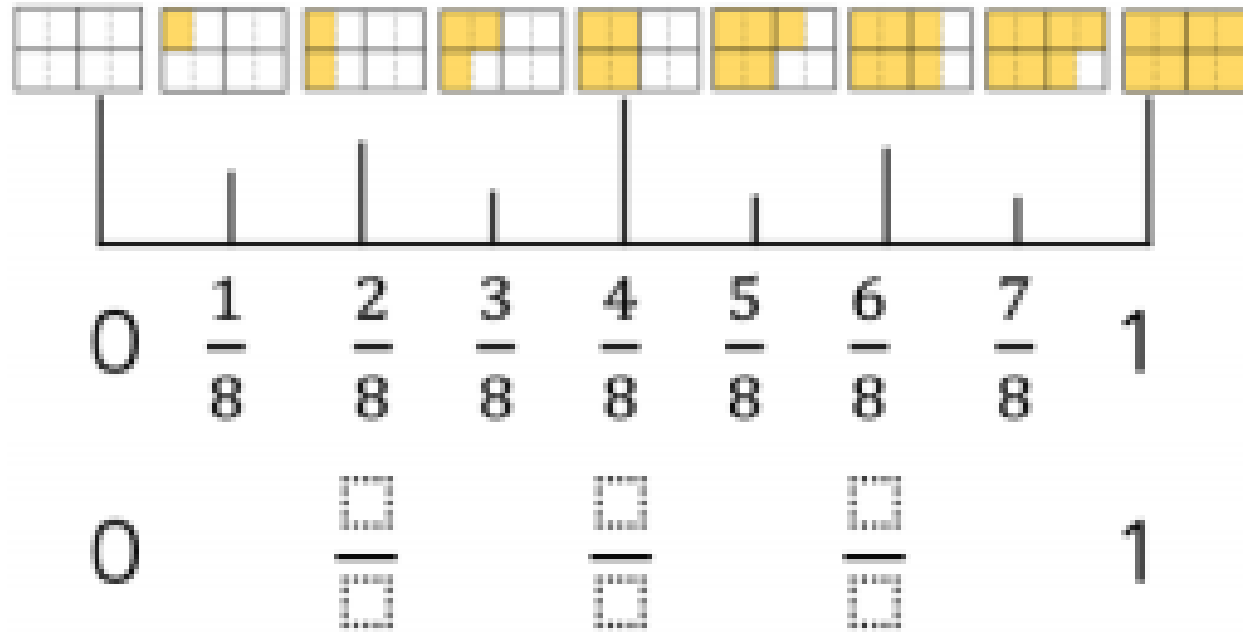
Use the models on the number line to identify the missing fractions. Which fractions are equivalent?



Intelligent Practice:

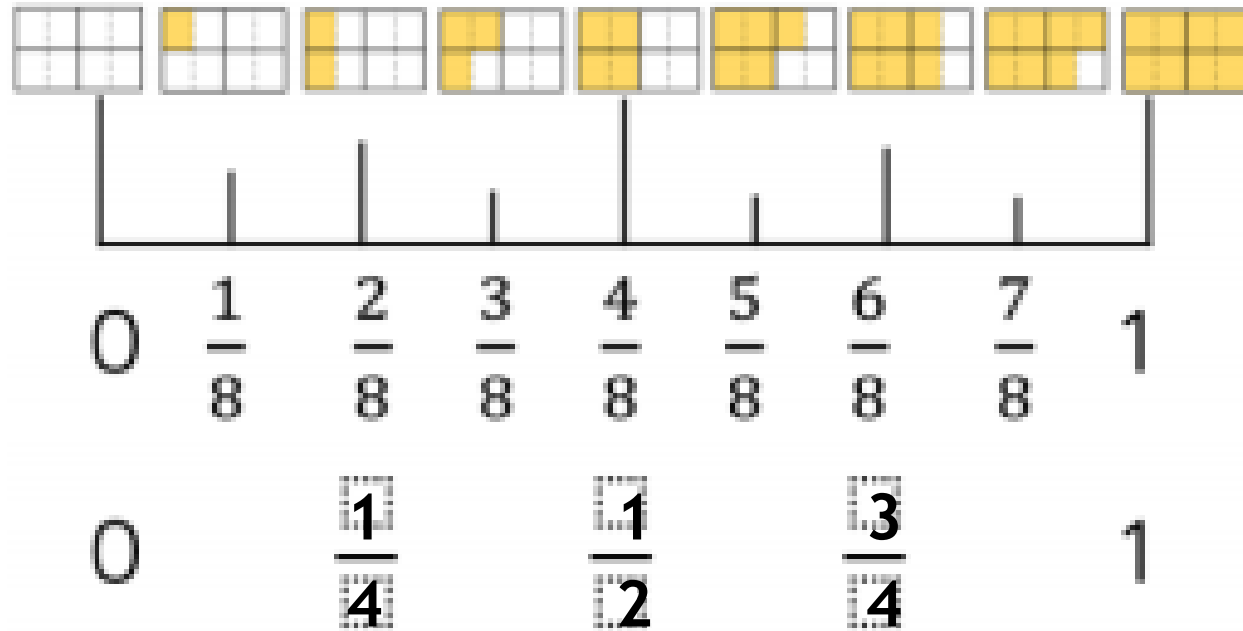


Complete the missing equivalent fractions.



Intelligent Practice: Answers

Complete the missing equivalent fractions.



Intelligent Practice:

Place these equivalent fractions on the number line.

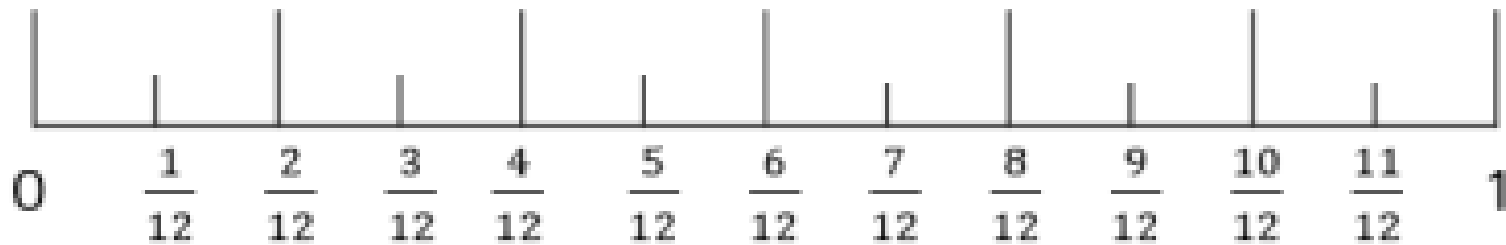
$$\frac{1}{4}$$

$$\frac{3}{4}$$

$$\frac{1}{6}$$

$$\frac{1}{3}$$

$$\frac{2}{3}$$

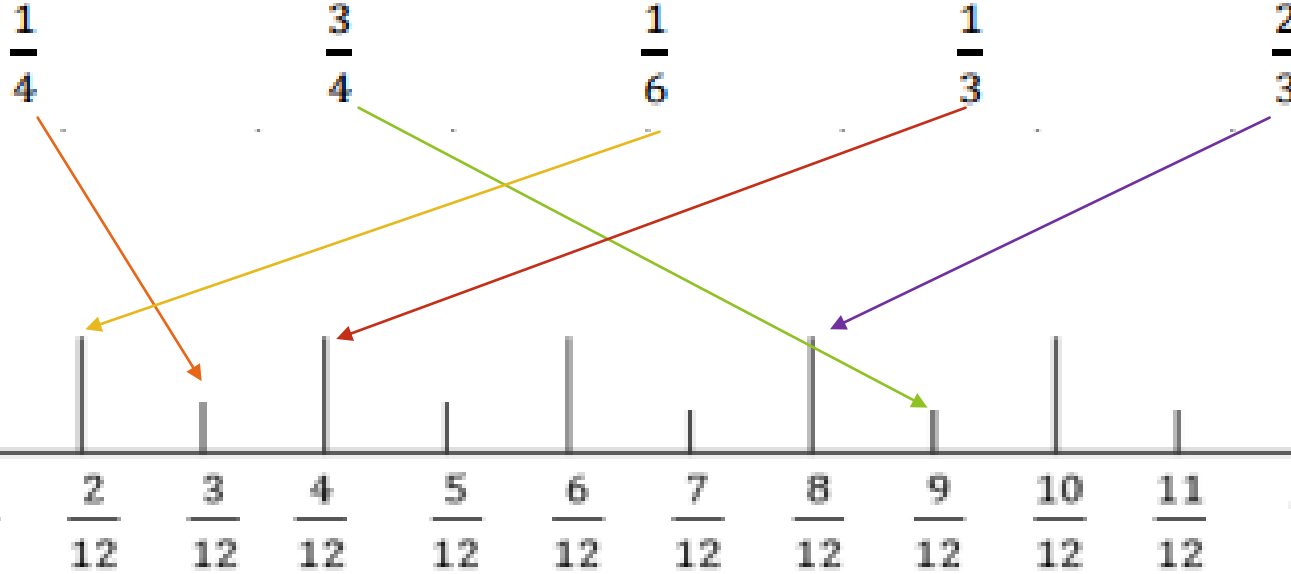


Are there any other equivalent fractions you can identify on the number line?

Intelligent Practice:



Place these equivalent fractions on the number line.



Are there any other equivalent fractions you can identify on the number line?

Other possible equivalents:

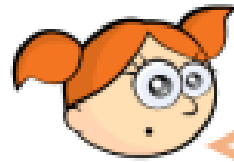
$$\frac{1}{2} = \frac{6}{12}$$

$$\frac{5}{6} = \frac{10}{12}$$

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

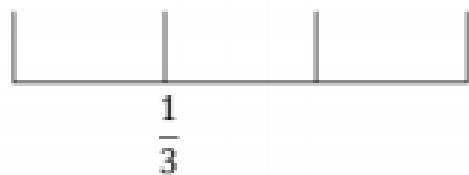
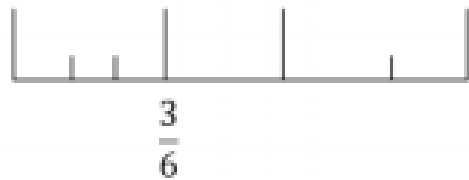
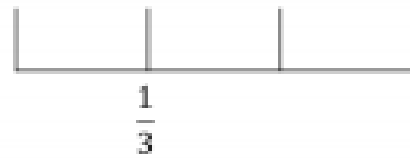
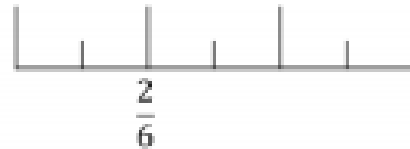
Dive Deeper 1:

Alex and Tommy are using number lines to explore equivalent fractions.



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

Alex



Tommy

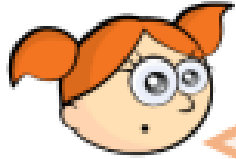


$$\frac{3}{6} = \frac{1}{3}$$

Who do you agree with? Explain why.

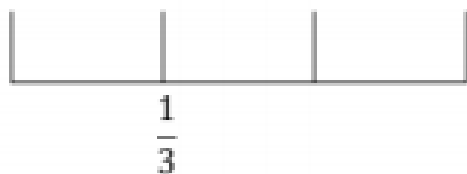
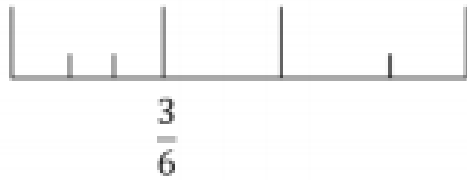
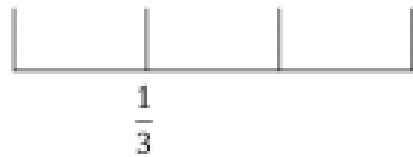
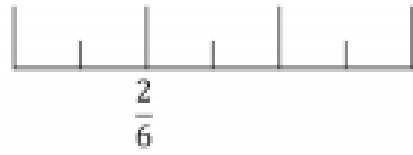
Dive Deeper 1:

Alex and Tommy are using number lines to explore equivalent fractions.



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

Alex



Tommy

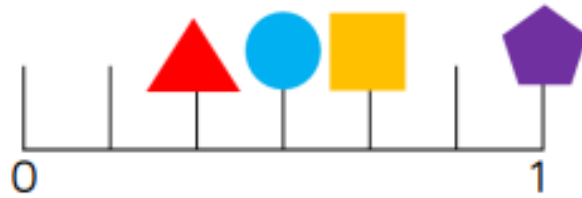
$$\frac{3}{6} = \frac{1}{3}$$



Alex is correct.
Tommy's top number line isn't split into equal parts which means he cannot find the correct equivalent fraction.

Who do you agree with? Explain why.




Dive Deeper 2:



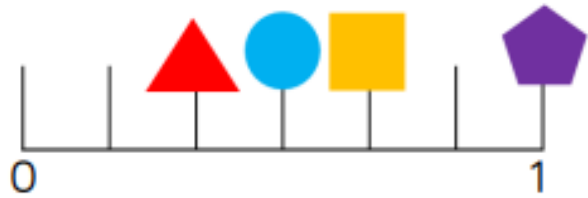
Use the clues to work out which fraction is being described for each shape.

- My denominator is 6 and my numerator is half of my denominator.
- I am equivalent to $\frac{4}{12}$
- I am equivalent to one whole
- I am equivalent to $\frac{2}{3}$

Can you write what fraction each shape is worth? Can you record an equivalent fraction for each one?

	=		=
	=		=

Dive Deeper 2:




Use the clues to work out which fraction is being described for each shape.


- My denominator is 6 and my numerator is half of my denominator.
- I am equivalent to $\frac{4}{12}$
- I am equivalent to one whole
- I am equivalent to $\frac{2}{3}$


Can you write what fraction each shape is worth? Can you record an equivalent fraction for each one?




- Circle
- Triangle
- Square
- Pentagon

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

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

 = $\frac{2}{3}$ or $\frac{4}{6}$

 = $\frac{6}{6}$ or $\frac{3}{3}$

Accept other correct equivalences