Wednesday 25.01.2023

MPI: Finding fractions equivalent to unit fractions

Q1.

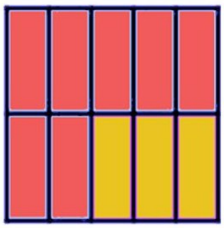
There are _____ equal parts.

The denominator is _____

What fraction is shaded yellow _____

What fraction is shaded red _____.

Q2



There are _____ equal parts

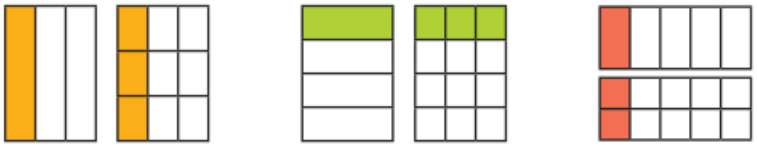
The denominator is _____

What fraction is shaded yellow _____

What fraction is shaded red _____

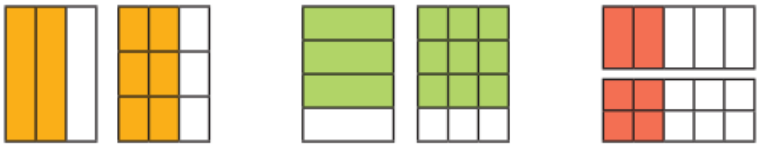
Q3..

Use the models to write equivalent fractions.



Q4.

Use the diagrams to write equivalent fractions.



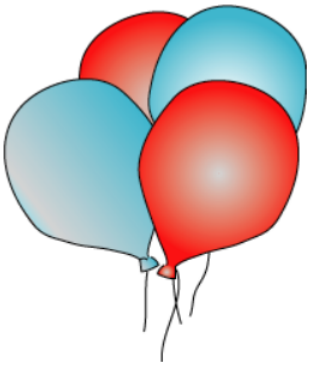
Q5.

Make or draw more models to show other fractions equivalent to unit fractions.

Wednesday 25.01.2023

MPI: Applying fractions

Katie and Will have some balloons, some are red and some are blue.



First, Katie blew up a red one. After her first puff her balloon had a circumference of 24 cm.

Her second puff added $\frac{1}{2}$ as much again to that.

Her third puff increased it by $\frac{1}{3}$.

Her fourth puff increased it by $\frac{1}{4}$ and her fifth puff by $\frac{1}{5}$.

Her sixth puff increased it by $\frac{1}{6}$ and at the beginning of her seventh puff it went

BANG!!!

Next, Will blew up a blue balloon. After his first puff his balloon had a circumference of 14 cm.

And, just like Katie's, his second puff added $\frac{1}{2}$ as much again to that and his third puff increased it by $\frac{1}{3}$.

His fourth puff increased it by $\frac{1}{4}$ and so on.

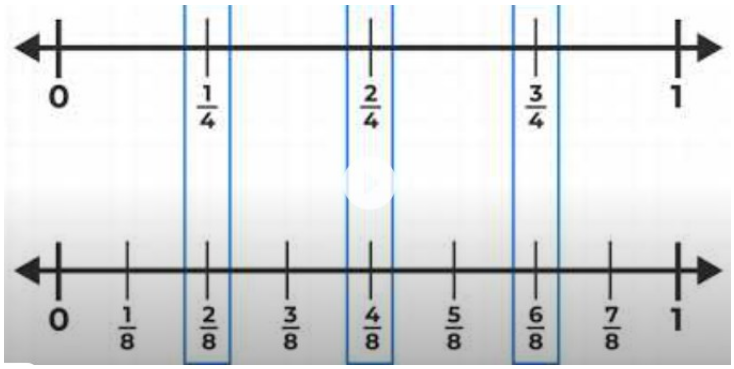
His balloon burst at exactly the same size as Katie's at the beginning of a puff.

How many puffs had Will done before his balloon burst?

Thursday 26.01.2023

MPI: Finding fractions equivalent to unit fractions

Q1.



1/4 is equivalent to _____

6/8 is equivalent to _____

2/4 is equivalent to _____

Q2. *Draw two number lines to show that* $\frac{1}{2} = \frac{5}{10}$

Q3. *Draw two number lines to show that* $\frac{1}{4} = \frac{3}{12}$

Q4. *What fraction is represented by the blue?* _____

What fraction is represented by the red? _____

Therefore, we know that _____ is equivalent to _____

Q5.

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

Do you agree with Tiny? _____

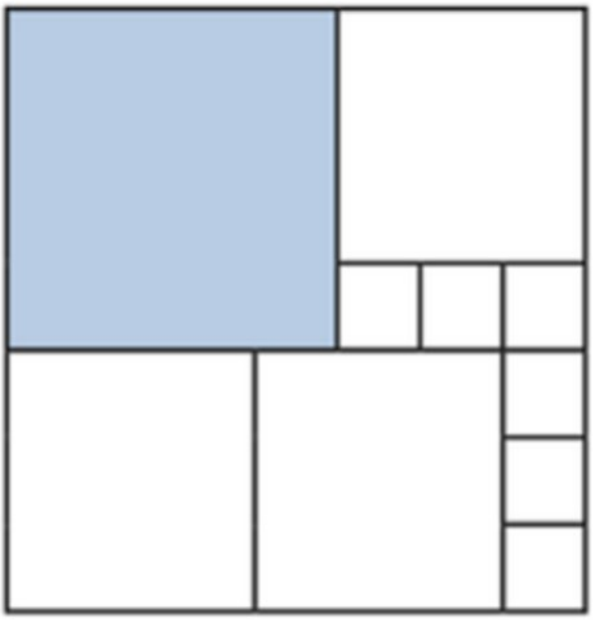
Talk about it with a partner.

Thursday 26.01.2023

MPI: Finding fractions—challenge

A square is divided into smaller squares.

What fraction is shaded?

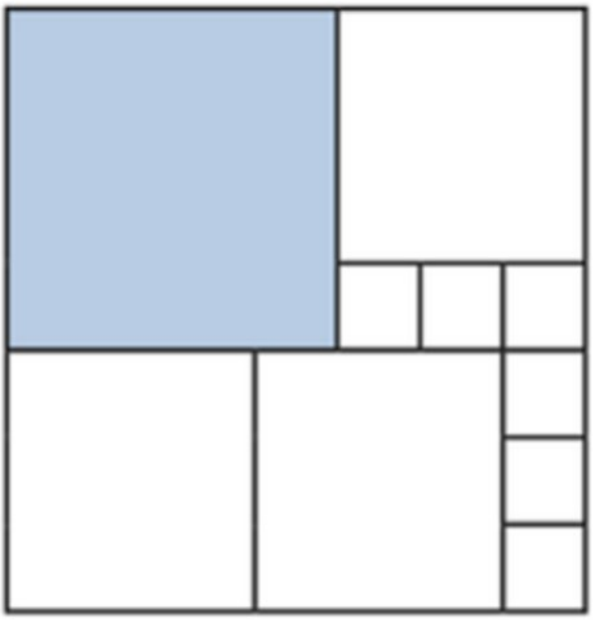


Thursday 26.01.2023

MPI: Finding fractions—challenge

A square is divided into smaller squares.

What fraction is shaded?



Thursday 26.01.2023

MPI: Finding fractions—challenge

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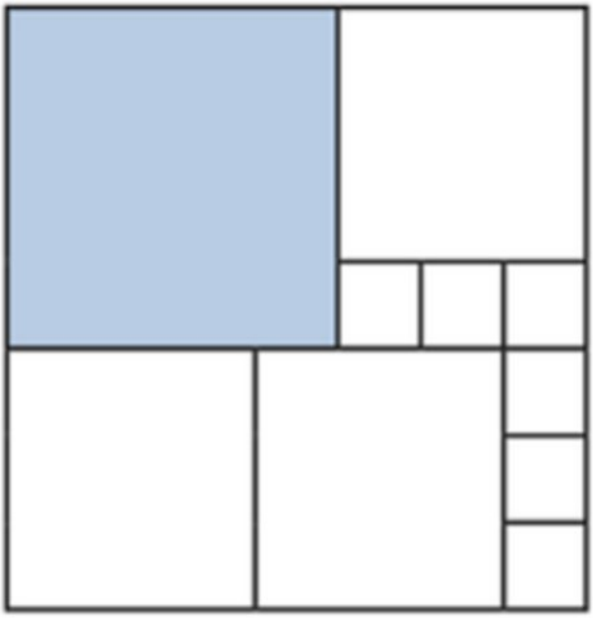
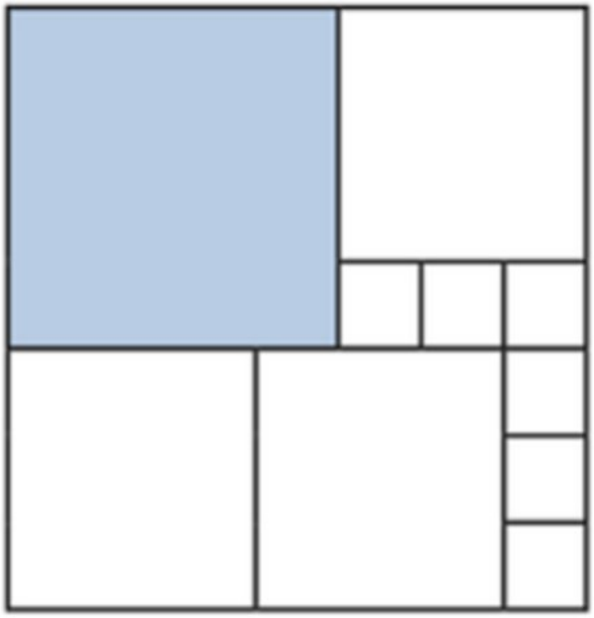


Thursday 26.01.2023

MPI: Finding fractions—challenge

A square is divided into smaller squares.

What fraction is shaded?