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## Pirates Ahoy!

After months at sea, Captain Goldbeard and his crew have finally found Treasure Island. Legend says that the first person to touch the treasure will live forever. But the captain cannot touch it yet: someone has stolen the treasure map! The captain is furious!


## COOD ABRTMMETIC?

Take the test.

do arithmetic with big numbers?

## I Explore

 Math ChatI see 30 lemon halves in this picture.

What do you see?


Can you use other fractions than halves to describe what you see? Discuss the question with your classmates.

A fraction represents one or more parts of a whole. The whole can be a single object or a group of objects (a collection).

| Single |
| :--- |
| whole | Collection

This fraction is called a quarter.
This fraction is called a half.
whole

Single
whole
This fraction is called two thirds.

A written fraction consists of a numerator and a denominator.


Number of parts to consider

Total number of equivalent parts in the whole. A fraction gets its name from the denominator.

## | Practise

1 Circle the figures in which the coloured part represents $\frac{1}{2}$.

(2) Circle the figures in which the coloured part represents $\frac{1}{4}$.

(3) Circle the figures in which the coloured part represents $\frac{1}{3}$.


4 Match each picture to the fraction represented by the part in red.
a)

b)

c)

d)


$\frac{1}{6}$

5 Complete each fraction by writing the numerator.
a)


b)

c)


d)


6 Complete each fraction by writing the denominator.
a)


b)

c)


d)


7 Circle the picture in which the coloured part does not represent the same fraction as in the other pictures.

|  |  |
| :--- | :--- |
|  |  |
|  |  |
|  |  |



8 Write the fraction represented by the picture. Then match each fraction to its name in words.
a)


- Four fifths
b)

- Two eighths
- Three sixths
c)

- Two twelfths
- Four eighths
(9) Match each fraction to its whole.
a)
represents $\frac{1}{2}$ of

represents $\frac{1}{3}$ of
c)

represents $\frac{1}{2}$ of
d)

represents $\frac{1}{4}$ of

Write the fraction represented by the coloured part of each figure.
a)

b)

c)

d)

e)

f)
 Comparing Fractions

To compare fractions, the wholes must be the same.
If the wholes are the same and the fractions have the same denominator, then all you have to do is compare the numerators.


## | Practise

(1) Represent the fractions and then compare them using $<,>$ or $=$.
a)

$\frac{1}{5}$
$\frac{2}{5}$
b)

$\frac{5}{10}$

$$
\frac{8}{10}
$$

c)


$\frac{3}{12}$
d)

$\frac{4}{8}$

$$
\frac{2}{8}
$$

e)

g)

$\frac{3}{6}$

$\frac{4}{6}$
f)

$\frac{1}{3}$
h)
$\frac{6}{8}$


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




$\frac{7}{8}$
2. Find the fractions represented by the blue treasure chests.


4 Solve the problems.
a) $\frac{1}{4}$ of Simona's flag is blue. $\frac{2}{4}$ of Gabriella's flag is blue. Who has more blue on her flag?

Simona's flag


Gabriella's flag

 has more blue on her flag.
b) Thomas drew a figure to make a pirate flag. He painted $\frac{1}{4}$ of his figure. Draw the rest of the figure.

c) Young sailors Moby and Hazim have to wash equal parts of the deck on the captain's ship. Moby has washed $\frac{5}{8}$ of his part. Hazim has washed $\frac{6}{8}$ of his part.

Which sailor is farther ahead in his work?

is farther ahead in his work.

## I Use ReaSoning

Jeremy is assembling pieces of cloth like the one below to make a sail for his pirate ship.

This piece represents $\frac{1}{5}$ of the entire sail.

Each piece of cloth of this size costs $\$ 125$.

How much will the entire sail cost?


The entire sail will cost $\square$

## Jack the Seagull's Treasure

Jack the Seagull has hidden his treasure on Palm Grove Island. The last time he visited the island, he left various objects in different places. His treasure lies under one of these objects. You must find the object that sits on top of the hidden treasure. Look on pages 71 to 117 for the objects shown below. Near each object is a number. Copy this number into the corresponding box below. Then follow the instructions at the bottom of the page.


## Instructions

- Draw an $X$ on the numbers with digits that add up to less than 9.
- Draw an $X$ on the odd numbers.
- The remaining number indicates which object sits on top of the treasure. Circle this object on the map on the next page.


