Class 3 Home Learning, week beginning 4th May 2020

Maths - Year 3

Week 2, Lesson 2
Fractions of a set of objects (1)

Please watch the video before choosing your challenge.

Why not have a go at the reasoning
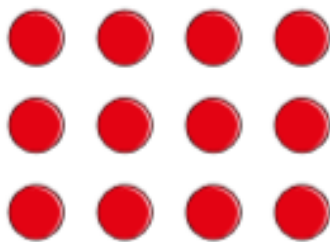and problem solving too?

Can I find a fraction of an amount?

Challenge 1

These pages do not need to be printed out. Please write the short date you do the work and the above question in your maths book, underlining them with a ruler. Remember to write the question number too!

Questions 1-4 mentioned in the video are questions 1-4 in Challenge 1.

1) Here are some counters.

A) Draw 1/4 (one quarter) of the counters in your maths book.

B) How many counters did you draw?

C) What is 1/4 of 12?

2) Draw the bar models in your maths book. Draw counters in the bar models to help you complete the number sentences. Remember to write the full number sentence in your maths book! The first one has been done as an example for you.

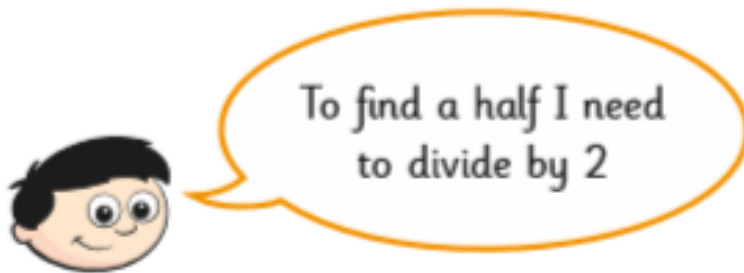a) $\frac{1}{2}$ of 8 = 4

b) $\frac{1}{2}$ of 16 =

c) $\frac{1}{4}$ of 8 =

d) $\frac{1}{4}$ of 16 =

3) Do you agree with Dexter? Why? Write your answer in your maths book.

To find a half I need to divide by 2

4) Copy and complete the table.

| Fraction	Division	Example	Drawing
one half	divide by 2	$\frac{1}{2}$ of 6 = 3	
one quarter		$\frac{1}{4}$ of 8 = 2	

Can I find a fraction of an amount?

Challenge 2

These pages do not need to be printed out. Please write the short date you do the work and the above question in your maths book, underlining them with a ruler. Remember to write the question number too!

Questions 1-4 mentioned in the video are questions 1-4 in Challenge 1.

Questions 5-9 mentioned in the video are questions 1-5 in this challenge.

1) Draw your answers in your maths book.

Huan uses a bar model and base 10 to find $\frac{1}{3}$ of 36
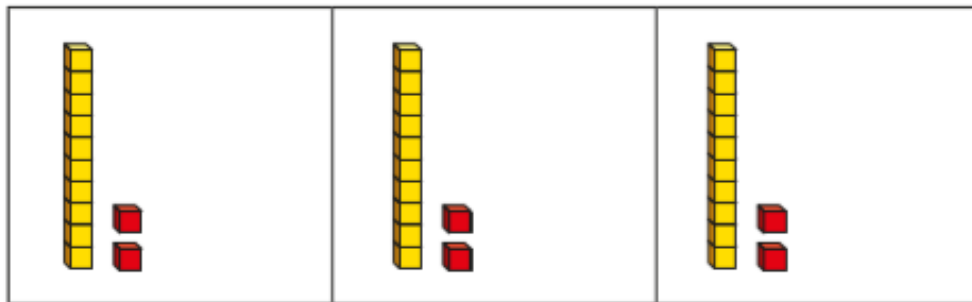
Use Huan's method to complete the calculations.

a) $\frac{1}{3}$ of 63 = ☐   c) $\frac{1}{4}$ of 92 = ☐

b) $\frac{1}{4}$ of 48 = ☐

2) Draw your answers in your maths book.

Nijah uses a bar model and place value counters to find $\frac{1}{3}$ of 36

Use Nijah's method to complete the calculations.

a) $\frac{1}{3}$ of 96 = ☐   c) $\frac{1}{4}$ of 52 = ☐

b) $\frac{1}{5}$ of 60 = ☐

3)

Which amount is greater? Tick your answer.

| $\frac{1}{3}$ of £75 | or | $\frac{1}{5}$ of £75 |

Show your workings.

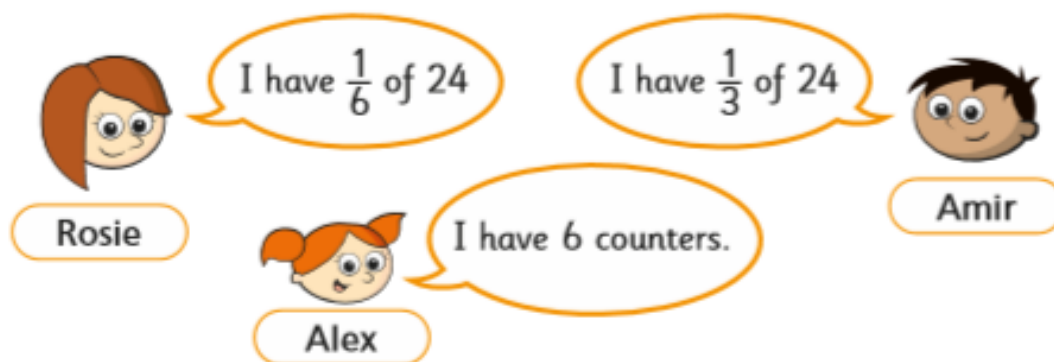4) Copy and complete the number sentences.

a) $\frac{1}{2}$ of [   ] = 30

c) $\frac{1}{5}$ of [   ] = 50

b) $\frac{1}{4}$ of [   ] = 20

5) Rosie, Amir and Alex each find a fraction of 24 using counters.

I have $\frac{1}{6}$ of 24

I have $\frac{1}{3}$ of 24

I have 6 counters.

Rosie

Alex

Amir

a) Order the children from least counters to most counters.

_____ _____ _____

(least counters)   (most counters)

b) What fraction of the counters does Alex have? [   ]

c) Rosie and Amir put their counters together.

Write their total number of counters as a fraction of 24

Can I find a fraction of an amount?

Reasoning and problem solving

These pages do not need to be printed out. Please write the short date you do the work and the above question in your maths book, underlining them with a ruler. Remember to write the question number too!

1) Please show your workings.

Whitney has 12 chocolates.

On Friday, she ate $\frac{1}{4}$ of her chocolates and gave one to her mum.

On Saturday, she ate $\frac{1}{2}$ of her remaining chocolates, and gave one to her brother.

On Sunday, she ate $\frac{1}{3}$ of her remaining chocolates.

How many chocolates does Whitney have left?

2) Please show your workings.

Fill in the Blanks

$$\frac{1}{3} \text{ of } 60 = \frac{1}{4} \text{ of } \boxed{}$$

$$\frac{1}{\boxed{}} \text{ of } 50 = \frac{1}{5} \text{ of } 25$$

Fraction of an Amount (1)

Reasoning and Problem Solving

Whitney has 12 chocolates.

On Friday, she ate $\frac{1}{4}$ of her chocolates and gave one to her mum.

On Saturday, she ate $\frac{1}{2}$ of her remaining chocolates, and gave one to her brother.

On Sunday, she ate $\frac{1}{3}$ of her remaining chocolates.

How many chocolates does Whitney have left?

Whitney has two chocolates left.

Fill in the Blanks

$\frac{1}{3}$ of 60 = $\frac{1}{4}$ of ☐

80

$\frac{1}{☐}$ of 50 = $\frac{1}{5}$ of 25

10