Monday 8th June 2020 Y3 Maths

Good morning Year 3s. I hope you had a lovely weekend.

For your maths today, go to White Rose maths at

https://whiterosemaths.com/homelearning/year-3/

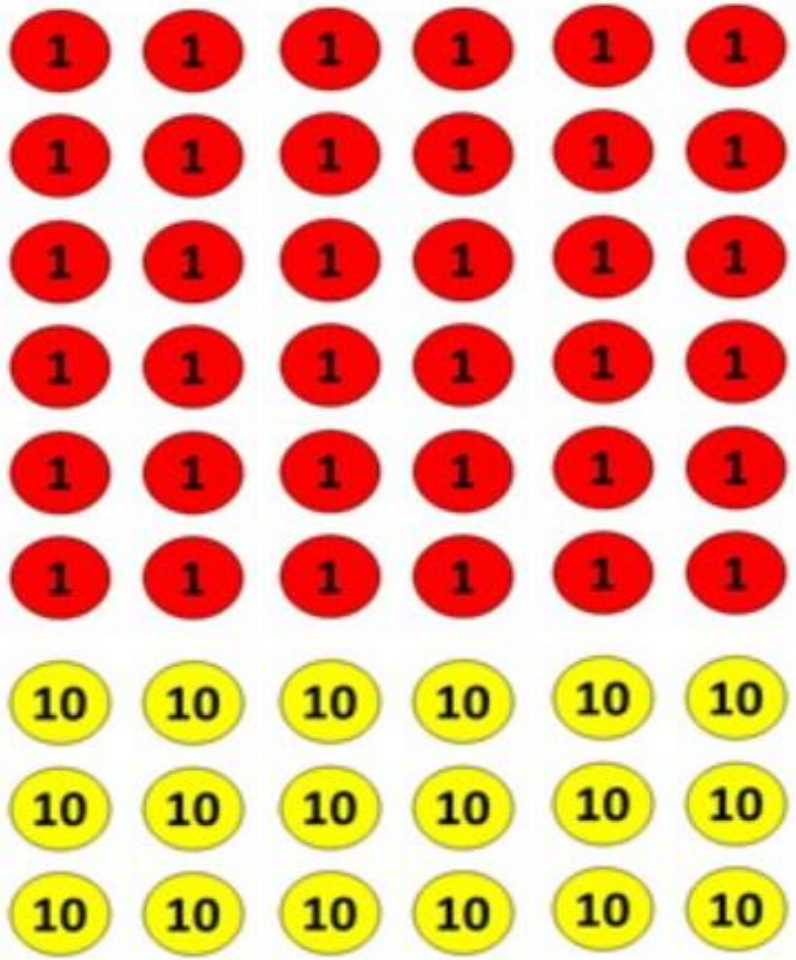
Find Summer Term - Week 6 - Lesson 3.

Watch the video called **'Fractions of a set of objects 1'** and

complete the worksheets. (The answers are on the last page).

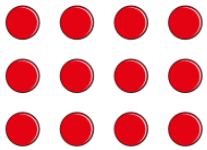
To help you, I have included these place value counters for you to cut out and use.

When you have finished, practise your 3,4 and 8 times tables on Sumdog.



Fractions of a set of objects (1)

1 Here are some counters.



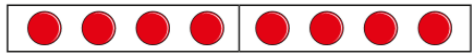
a) Circle $\frac{1}{4}$ of the counters.

b) How many counters did you circle? ☐

c) What is $\frac{1}{4}$ of 12? ☐

2 Draw counters in the bar models to help you complete each number sentence. The first one has been done for you.

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

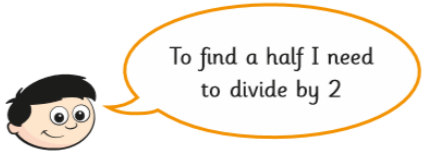


b) $\frac{1}{2}$ of 16 = ☐

c) $\frac{1}{4}$ of 8 = ☐

d) $\frac{1}{4}$ of 16 = ☐

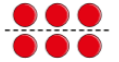
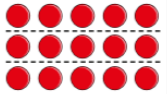
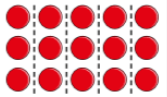
3



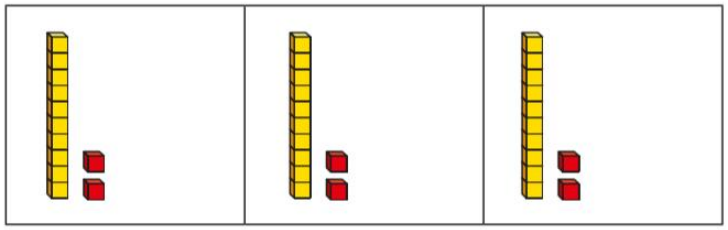
Do you agree with Dexter? _____

Talk about it with a partner.

4 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	
			
			

5 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 = ☐

6 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 = ☐

7 Which amount is greater? Tick your answer.

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

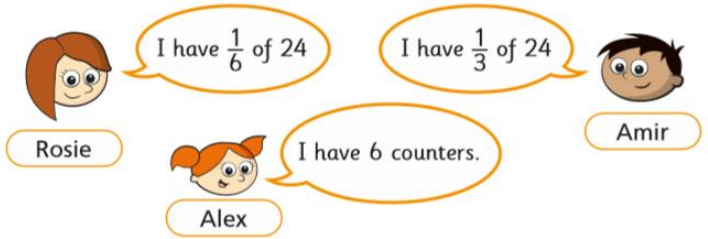
Show your workings.

8 Complete the number sentences.

a) $\frac{1}{2}$ of ☐ = 30 **c)** $\frac{1}{5}$ of ☐ = 50

b) $\frac{1}{4}$ of ☐ = 20

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



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.

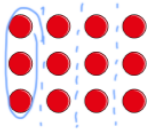
Write their total number of counters as a fraction of 24

☐

Fractions of a set of objects (1)

Maths

1 Here are some counters.



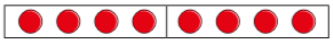
a) Circle $\frac{1}{4}$ of the counters.

b) How many counters did you circle? 3

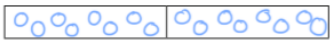
c) What is $\frac{1}{4}$ of 12? 3

2 Draw counters in the bar models to help you complete each number sentence. The first one has been done for you.

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



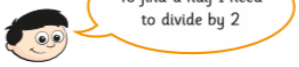
b) $\frac{1}{2}$ of 16 = 8



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

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

3



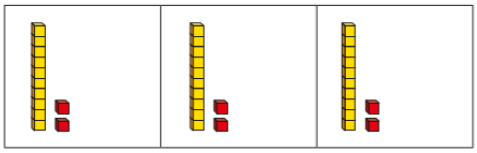
Do you agree with Dexter? Yes

Talk about it with a partner.

4 Complete the table.

Fraction	Division	Example	Drawing
one half	divide by 2	$\frac{1}{2}$ of 6 = 3	
one quarter	divide by 4	$\frac{1}{4}$ of 8 = 2	
one third	divide by 3	$\frac{1}{3}$ of 15 = 5	
one fifth	divide by 5	$\frac{1}{5}$ of 15 = 3	

5 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 = 21

c) $\frac{1}{4}$ of 92 = 23

b) $\frac{1}{4}$ of 48 = 12

6 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 = 32

c) $\frac{1}{4}$ of 52 = 13

b) $\frac{1}{5}$ of 60 = 12

7 Which amount is greater? Tick your answer.

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

$\frac{1}{3}$ of £75 = £25

$\frac{1}{5}$ of £75 = £15

Show your workings.

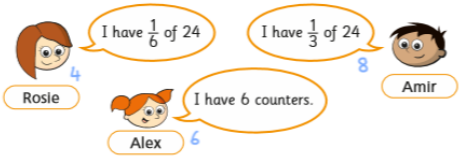
8 Complete the number sentences.

a) $\frac{1}{2}$ of 60 = 30

c) $\frac{1}{5}$ of 250 = 50

b) $\frac{1}{4}$ of 80 = 20

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



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

Rosie, Alex, Amir

least counters ... most counters

b) What fraction of the counters does Alex have? $\frac{6}{24} = \frac{1}{4}$

c) Rosie and Amir put their counters together.

Write their total number of counters as a fraction of 24

4 + 8 = 12

$\frac{12}{24}$