Year 3 Maths
Thursday 18 ${ }^{\text {th }}$ June 2020

## Lesson Aims

- LO: To use solve fraction of number problems.
- SC: I know that the denominator (bottom number) tells me how many groups to divide into.
- I can share out the total number equally.
- I know that the numerator (top number) tells me how many groups to count up.


## Fluency Starter

- A fraction is part of a $\qquad$ .
- This circle has been split into $\qquad$ equal parts.
-What fraction is the green section?
-What fraction are the white sections?



## Fluency Answers

- A fraction is part of a whole.
- This circle has been split into 8 equal parts.
-What fraction is the green section? $\mathbf{1}$
- What fraction are the white sections? $\underline{7}$



## Fluency Starter



What are these fractions?
Which is the biggest?
Explain your answer.


## Fluency Starter Answers



1 is the biggest fraction because the smaller the 4 denominator, the bigger the fraction.


## Main Teaching

- LO: To use solve fraction of number problems.
- SC: I know that the denominator (bottom number) tells me how many groups to divide into.
- I can share out the total number equally.
- I know that the numerator (top number) tells me how many groups to count up.

Today's lesson is all about problem solving. In school, we will be working through the first XX examples together, before tackling the work sheet independently.

## Main Teaching

A quick recap from yesterday:
To do work out fractions of a number, the denominator (bottom number) will tell you how many groups to divide into.

Share out the total number equally.
The numerator (top number) tells me how many groups to count up.

To find 1 of 12 , you divide 12 into 4 groups, then 4
count how many are in 1 group.
The answer is 3 . You might find it helpful to circle the groups.

You can also use your times table and division facts $12 \div 4=3$------ divide the number you are finding the fraction of by the denominator.

## Fluency

What is $\frac{1}{3}$ of $15 ?$


## Fluency Answer

What is $\frac{1}{3}$ of $15 ? 5$


## Main Teaching

To work out $\underline{3}$ of 12, the denominator (bottom number) tells you 4
how many groups to divide into, so this would be 4 . Then count how many is in 1 group. Or $12 \div 4=3$
To work a non unit fraction (the numerator or top number is not 1) you multiply the answer by the numerator. So $12 \div 4=3$, then $3 x$ $3=9$.

You might find it helpful to circle the groups.

You can also use your times table and division facts $12 \div 4=3$
$3 \times 3=9$------ divide the number you are finding the fraction of by the denominator and then multiply the answer by the numerator.


## Fluency

What is $\frac{2}{3}$ of $15 ?$


## Fluency

What is $\frac{2}{3}$ of $15 ? 10$


## Problem Solving

1) You want to buy a jumper. The jumper is $£ 42$. In shop $A$, the jumper is priced at $5 / 6$ of the original price.
In shop $B$, the jumper is priced at $2 / 3$ of the original price.
In which shop would you be able to buy the jumper for the cheapest price?
Explain your answer.


## Problem Solving Answer

1) You want to buy a jumper. The jumper is $£ 42$.

In shop $A$, the jumper is priced at $5 / 6$ of the original price.
In shop $B$, the jumper is priced at $2 / 3$ of the original price.
In which shop would you be able to buy the jumper for the cheapest price?
Shop A = £ 35
Shop B = £28 - the cheapest price
Explain your answer = I would buy the jumper at Shop $B$ because it is the cheaper price by $£ 7$.

## 1 <br> \&1 <br> Problem Solving

2) You are cooking frozen peas. There are 63 frozen peas in a bag. You can use either $3 / 7$ or $4 / 9$ of the total amount of peas.
Which fraction of the frozen peas will you choose so that you have the most amount of peas to go with your Sunday dinner? Explain your answer.


## N <br> 818 <br> Problem Solving Answer

2) You are cooking frozen peas. There are 63 frozen peas in a bag. You can use either $3 / 7$ or $4 / 9$ of the total amount of peas.
Which fraction of the frozen peas will you choose so that you have the most amount of peas to go with your Sunday dinner?
$3 / 7=27$
$4 / 9=28$
Explain your answer.
I would cook 4/9 of the packet as would get 1 extra pea.


## Activity

- Please use the work sheet entitled Maths Thursday.
- The answers are on the next slide.


## Activity Answers

1) $3 / 7=24$

$$
1 / 2=28
$$

$1 / 2$ is bigger than $3 / 7$. It amounts to 4 sweets.
2) $\operatorname{Shop} A=£ 9$
Shop B = £8.

I would buy the trousers at Shop B as the trousers are £1 cheaper.
3) $4 / 5=56$

$$
5 / 7=50
$$

I would want to sell $4 / 5$ of the sweets as this would raise the most amount of money for charity.

## Activity Answers

## CHALLENGE

a) $3 / 8=9$
b) $4 / 6=16$

I would choose $4 / 6$ as it would give me 7 more stickers.

