

2.2.21

## Fractions

Learning Objective:

We are learning to continue number sequences with fractions.

I will be successful if:

- I can identify if sequences are increasing or decreasing and explain the rule.
- I can show number sequences with pictures
- I can reason about fractions.

## Key Vocabulary

fractions as part of a whole

equal

representations

shapes

quantities

numerator

denominator

non-unit and unit fractions

consecutive integers

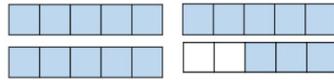
sequence

rule

# Flashback 4

Year 5 | Week 5 | Day 2

1) How many wholes are there?



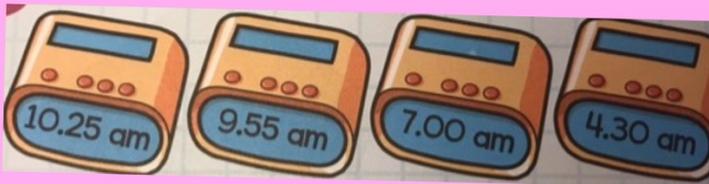
2) Change  $\frac{7}{9}$  to eighteenths

3) Divide 3,632 by 7

4) What is the value of the 7 in the number 18.071 ?



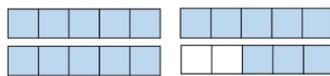
Challenge - Write these times as 24 hour clock times and in words.



# Flashback 4

Year 5 | Week 5 | Day 2

1) How many wholes are there?



3



2) Change  $\frac{7}{9}$  to eighteenths

$\frac{14}{18}$

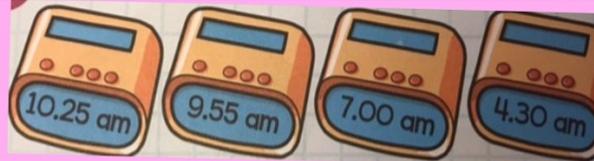
3) Divide 3,632 by 7 **518 r 6**

4) What is the value of the 7 in the number 18.071 ?

**7 hundredths**

White Rose Maths

Challenge - Write these times as 24 hour clock times and in words.



10:25 - twenty five minutes past ten

09:55 - five minutes to 10

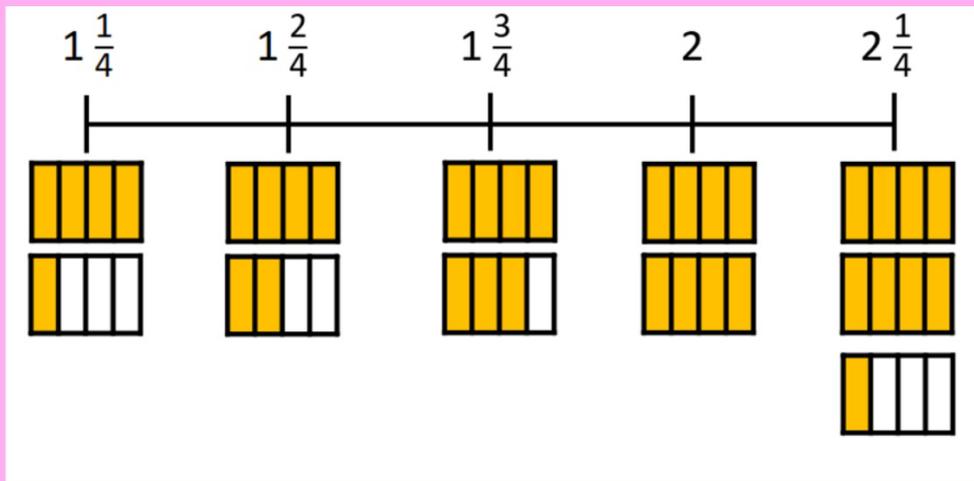
07:00 - seven o'clock

04:30 - half past four

## Number sequences

72 , 77, 82, 87, 92 = The sequence is increasing  
Rule = +5

Will fraction sequences be the same?

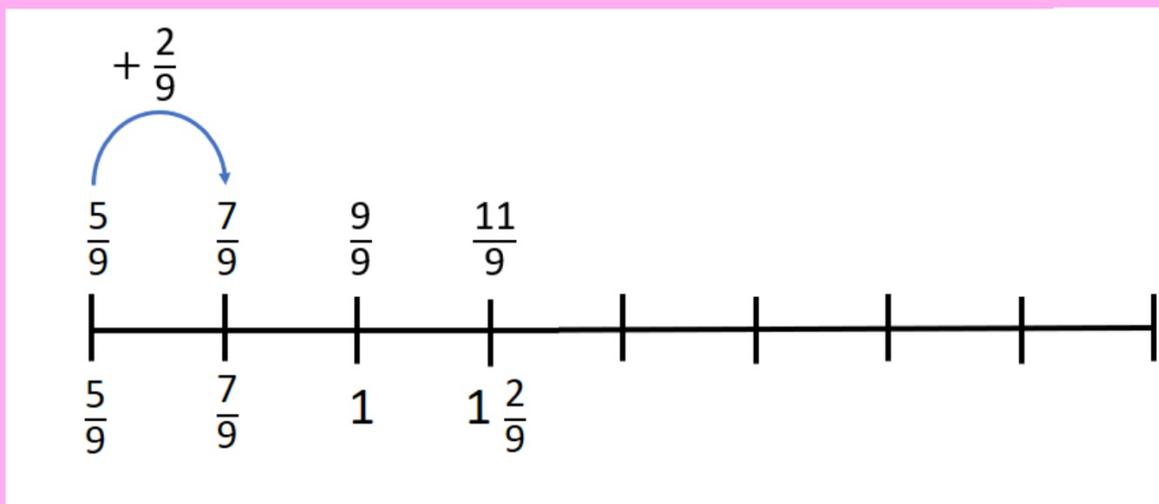


*Is the sequence increasing or decreasing?*

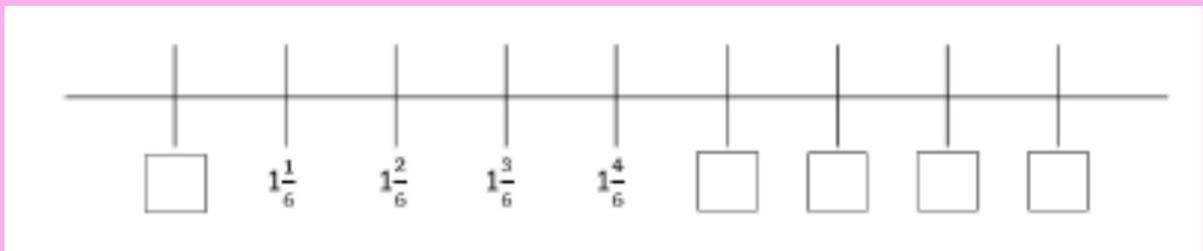
*What is the rule for the sequence?*

The sequence is increasing by  $\frac{2}{9}$  each time.

Complete the sequence.



Complete the sequences.



Rule=\_\_\_\_\_

$$6\frac{1}{11}, 5\frac{8}{11}, \square, \square, \square$$

Rule=\_\_\_\_\_

Complete these number sequences.

$$\frac{3}{4}, \frac{\square}{\square}, 1\frac{3}{4}, 2\frac{1}{4}$$

$$\frac{\square}{\square}, 3\frac{1}{3}, \frac{\square}{\square}, 2\frac{2}{3}$$

$$\frac{\square}{\square}, 5\frac{1}{2}, 5\frac{7}{10}, 5\frac{9}{10}$$

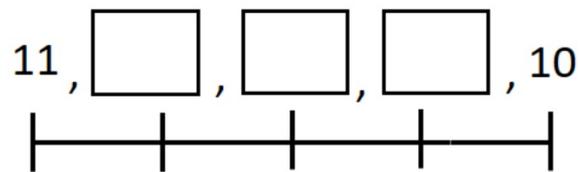
$$\frac{3}{5}, \frac{\square}{\square}, \frac{\square}{\square}, 3$$

True or false? Explain your answer.

There are three boxes so the missing fractions are thirds.



The 1<sup>st</sup> and 5<sup>th</sup> terms are consecutive integers.



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*Have a go at the questions on the sheet attached.*

## Reasoning challenges

**True or False?** Number sequences

7  $\frac{1}{4}$

If I count back in ninths  $6\frac{7}{9}$  will go in the empty box.

White Rose Maths

Three children are counting in quarters.

Whitney



$\frac{1}{4}, \frac{2}{4}, \frac{3}{4}, \frac{4}{4}, \frac{5}{4}, \frac{6}{4}, \frac{7}{4}$

Teddy



$\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, 1, 1\frac{1}{4}, 1\frac{1}{2}, 1\frac{3}{4}$

Eva



$\frac{1}{4}, \frac{2}{4}, \frac{3}{4}, 1, 1\frac{1}{4}, 1\frac{2}{4}, 1\frac{3}{4}$

Who is counting correctly?  
Explain your reasons.