## Week Commencing: Monday $12^{\text {th }}$ April 2021

## Year Group: 4

|  | Monday | Tuesday | Wednesday | Thursday | Friday |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Area of Learning | LC: Can you divide I-digit numbers by 10 ? | LC: Can you divide 2-digit numbers by 10 ? | LC: Can you recognise hundredths? | LC: Can you represent hundredths as decimals? | LC: Can you use a place value grid to represent hundredths? |
| Activity | Starter: <br> Times Tables Rockstars <br> Main: Go to the following website: <br> https://vimeo.com/519495647 <br> Find and watch 'Divide I digit by 10 ' video. <br> Pause if you need to take notes or replay sections to help with understanding. <br> Independent Task: Children to complete the worksheet found in the resources. <br> Answers can be found in the resources. | Starter: <br> Times Tables Rockstars <br> Main: Go to the following website: <br> https://vimeo.com/519556201 <br> Find and watch 'Divide 2 digits by I0' video. <br> Pause if you need to take notes or replay sections to help with understanding. <br> Independent Task: Children to complete the worksheet found in the resources. <br> Answers can be found in the resources. | Starter: <br> Times Tables Rockstars <br> Main: Go to the following website: <br> https://vimeo.com/519976198 <br> Find and watch 'Hundredths' video. <br> Pause if you need to take notes or replay sections to help with understanding. <br> Independent Task: Children to complete the worksheet found in the resources. <br> Answers can be found in the resources. | Starter: <br> Times Tables Rockstars <br> Main: Go to the following website: <br> https://vimeo.com/520024278 <br> Find and watch 'Hundredths as decimals' video. <br> Pause if you need to take notes or replay sections to help with understanding. <br> Independent Task: Children to complete the worksheet found in the resources. <br> Answers can be found in the resources. | Starter: <br> Times Tables Rockstars <br> Main: Go to the following website: <br> https://vimeo.com/521312134 <br> Find and watch 'Hundredths on a Place Value Grid' video. <br> Pause if you need to take notes or replay sections to help with understanding. <br> Independent Task: Children to complete the worksheet found in the resources. <br> Answers can be found in the resources. |

## Where can I complete further work?

Twinkl - Subscription service used by schools is offering a free premium service for teachers, parents and children to use whilst schools are closed. Enter the code UKTWINKLHELPS for access to worksheets, powerpoints and interactive games to support all areas of learning.

Classroom Secrets - Free Maths, Reading and Grammar home learning packs and interactive resources for all ages.

BBC Bitesize Primary - Free learning resources available for KSI and KS2 across all subjects.
Oxford Owl - Free ebooks and reading resources available when you create a free login.
Phonics Play - Subscription service is offering free access to their learning resources during this period. Follow the link for details on how to gain free access.

Top Marks - Free educational resources and games for English and Maths.
ICT Games - Free educational resources and games for English and Maths.

## Dividing 1 digit by 10

1) Look at the ten frames.
a)


What number is represented? Complete the division.

b)


What number is represented? Complete the division.

c) What is the same? What is different?
2) a) What calculation is represented by the counters?

$\square$
b) Complete the number sentence.
$\square$ tenths.
(3)
a) Draw counters on the place value chart to show 7

b) Complete the division. $7 \div 10=$ $\square$
c) Draw counters on the place value chart to show your answer.

d) What do you notice?
e) Complete the sentence.

4. a) Use a place value chart to represent 9
b) Move the counters to the right to represent 0.9
c) Complete the division.

$$
9 \div 10=\square
$$

d) What do you notice?
e) Complete the sentence.
$\square$ ones divided by ten equals $\square$ tenths.

To divide by 10 ,
you split the counters into
10 equal parts.

To divide by 10 ,
you put the counters on a place value chart and move them one column to the right.

Who is correct? Circle your answer,

## Dora

## Alex

 neither bothCompare answers with a partner.

6 Here is a one-digit number on a place value chart.

| Ones | Tenths |
| :---: | :---: |
| 6 |  |

a) Complete the division.
$6 \div 10=$ $\square$
b) Write your answer on the place value chart.

c) In your own words, describe what happens to the digits in a number when you divide by 10
d) Use this method to work out the divisions.
$7 \div 10=$ $\square$
7) Complete the divisions.
a) $4 \div 10=$ $\square$ d) $9 \div 10=$ $\square$
b) $2 \div 10=$ $\square$
e)

c)
$\square$ $=5 \div 10$
f) $\square$ $\div 10=0.1$
8) Complete the number sentences.
a) $\square$ $\div 10=3 \div 10$
b) $24 \div 6 \div 10=$ $\square$ $\div 10$
c) $42 \div$ $\square$ $\div 10=21 \div 7 \div 10$
d) Write a problem like this for a partner to solve.

## Dividing 2 digits by 10

a) The array shows 20 shared between 10 88888888888Complete the calculation.

b) The array shows 4 shared between 10


Complete the calculation.

$$
4 \div 10=\square
$$

c) Complete the calculation.

$$
24 \div 10=
$$

$\square$

Compare answers with a partner.
(2)
a) Draw counters to represent 30 on the place value chart.

| Tens | Ones | Tenths |
| :---: | :---: | :---: |
|  |  |  |

Complete the division.
$30 \div 10=$ $\square$
Draw counters to show your answer on the place value chart.

b) Draw counters to show 35 on the place value chart.


Complete the division.


Draw counters to show your answer on the place value chart.

| Tens | Ones | Tenths |
| :---: | :---: | :---: |
|  |  |  |

c) What do you notice about your answers in parts a) and b)?
d) Complete the sentence.

When dividing by $\mathbf{1 0}$, you move the counters $\square$ place to the $\qquad$ -.
(5) Complete the divisions.
a) $37 \div 10=$ $\square$
e) $80 \div 10=$ $\square$
b) $11 \div 10=$ $\square$
f)
c) $48 \div 10=$ $\square$
g) $\square$ $\div 10=6.3$
h) $3.9=$ $\square$ $\div 10$
d) $99 \div 10=$ $\square$ Explain your answer.
(4) Dexter is calculating $43 \div 10$ Here are Dexter's workings.

a) Talk to a partner about why Dexter's method works.
b) Use Dexter's method to complete the divisions.


Do you agree with Rosie? $\qquad$

a)


Do you agree with Teddy? $\qquad$
Explain your answer.
$\qquad$
b) How can you use a Gattegno chart to divide by 10 ?

| 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
| 0.01 | 0.02 | 0.03 | 0.04 | 0.05 | 0.06 | 0.07 | 0.08 | 0.09 |

b) How can use a Gategno chat to divide by


What is the value of each of these pieces?
Give your answer as a fraction.
a)

b)

Wnice
Rose Maths
2) Write $<,>$ or $=$ to compare the fractions.
a) $\frac{1}{10} \bigcirc \frac{9}{100}$

c) $\frac{1}{10} \square$ $\frac{20}{100}$
b)

昌
르를
d)

(3)


Jack
Who do you agree with? $\qquad$
Explain why.
$\qquad$

Compare answers with a partner.
(4)

Fill in the missing numerators to make the statements correct.
a) $\frac{3}{10}=\frac{\square}{100}$
b) $\frac{7}{10}=\frac{\square}{100}$
c) $\frac{80}{100}=\frac{\square}{10}$
d) $\frac{20}{100}=\frac{\square}{10}$
e) $\frac{27}{100}=\frac{\square}{10}+\frac{\square}{100}$
f) $\frac{67}{100}=\frac{\square}{10}+\frac{\square}{100}$

Complete the number lines using fractions.
a)

b)

c)

d)


Amir is counting 67 hundredths on a bead string.
7 These are Rekenreks made from 100 beads.
Each Rekenrek represents one whole.
Write the fraction represented on the left and on the right.
a)
left
right

b)

c)

d)


Did you use the same method as your partner?

## Hundredths as decimals

(1) Complete the table.

| Hundred square | Words | Fraction | Decimal |
| :---: | :---: | :---: | :---: |
| $\Psi$  <br>   <br>   <br>   | thirty-six hundredths |  |  |
|  |  | $\frac{82}{100}$ |  |
|  |  |  | 0.27 |
|  |  |  |  |
|  | seven tenths |  |  |
| $\Perp$  <br> $\Perp$  <br>   |  |  | 0.3 |

(2) Draw decimal place value counters to represent the numbers.
a) 0.03
c) 0.63

b) 0.6
d) 0.36

3) The counters represent tenths and hundredths.
a) Match the decimals to the groups of counters.

b) Write each decimal as a fraction.

$0.14=$ $\square$
(4)


Is Rosie correct? $\qquad$
Explain your answer.
$\qquad$
$\qquad$
(5) Match the decimals to the descriptions.

Some of the numbers can be described in two ways.


> one tenth and three hundredths
thirty hundredths
0.03
one and three tenths
thirteen tenths

## three tenths

Shade the hundred squares to represent 12 hundredths in three different ways.


Compare answers with a partner.
What is the same? What is different?


Dora


Who do you agree with? $\qquad$
Explain why.

Hundredths on a place value grid
(1) Write the decimal that is represented in each place value chart.

b)

c)

d)

e)

| Ones | Tenths | Hundredths |
| :---: | :---: | :--- |
|  |  |  |

2) Use place value counters to make each number.

Draw your answers on the place value charts.
a) 0.06

| Ones | Tenths | Hundredths |
| :---: | :--- | :--- |
|  |  |  |

b) 0.24

c) 1.72

d) 3.08

| Ones | Tenths | Hundredths |
| :---: | :--- | :--- |
|  |  |  |

(3) Complete the part-whole models.
a)

b)

c)

e)

d)

f)

c)

d)

4) Complete the sentences.
a) 2 tenths can be exchanged for $\square$ hundredths.
b) 7 tenths can be exchanged for $\square$ hundredths.
c) 7 tenths and 4 hundredths is equivalent to $\square$ hundredths.
d) $\square$ hundredths is equivalent to 26 hundredths.

Complete the part-whole models.
a)

b)


Whitney, Tommy, Esther and Dexter each have the same three digit cards and a place value chart.


When they put the cards in the chart with one in each space, they each make a different number.

Use the clues to work out each person's number and write it on their place value chart.

- Dexter makes the greatest number possible.
- Tommy makes the number closest to four.
- Esther and Whitney choose the two numbers closest together (Esther makes the slightly greater number).


