Hello!

We hope you and your families are safe and well.

You are required to complete today's work. Please try your very best!

Independent work

Complete your fluency, reasoning and problem solving questions. Choose the colour questions you are given in class e.g. red, blue or yellow.

1 x 12 = 12	7 x 12 = 84
2 x 12 = 24	8 x 12 = 96
3 x 12 = 36	9 x 12 = 108
4 x 12 = 48	10 x 12 = 120
5 x 12 = 60	11 x 12 = 132
6 x 12 = 72	12 x 12 = 144

$$12 \div 12 = 1$$

$$24 \div 12 = 2$$

$$36 \div 12 = 3$$

$$48 \div 12 = 4$$

$$60 \div 12 = 5$$

$$72 \div 12 = 6$$

$$84 \div 12 = 7$$

$$96 \div 12 = 8$$

$$108 \div 12 = 9$$

$$120 \div 12 = 10$$

$$132 \div 12 = 11$$

$$144 \div 12 = 12$$

Arithmetic Test

1. 987 +100

1 mark

2. 143 × 2

1 mark

3. 5.2 + 0.4

1 mark

19.01.2021

L.O: To order Fractions, Decimals and Percentages.

Success Criteria;
- Use your knowledge of place value
- Understand 'per cent' means 'out of 100'
- Use your knowledge of equivalent decimal, fractions and percentages

1) Match the equivalent fractions, decimals and percentages.

$\dfrac{3}{20}$ 0.03   3%

$\dfrac{1}{2}$ 0.15   50%

$\dfrac{3}{100}$ 0.5   15%
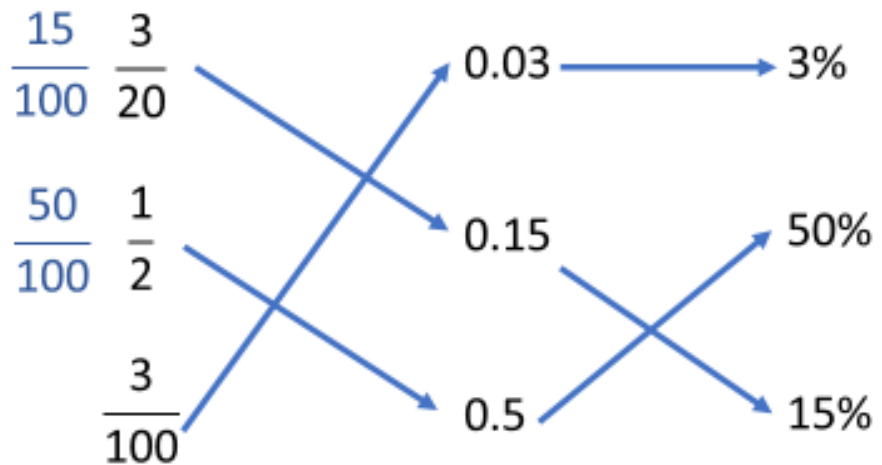
2) Write the decimal that is $\dfrac{1}{10}$ less than 100%

Introduction

1) Match the equivalent fractions, decimals and percentages.

$\frac{15}{100}$ $\frac{3}{20}$ 0.03 ⟶ 3%

$\frac{50}{100}$ $\frac{1}{2}$ 0.15   50%

$\frac{3}{100}$ 0.5   15%

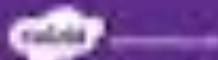2) Write the decimal that is $\frac{1}{10}$ less than 100% 0.9

Introduction

Ordering Fractions, Decimals and Percentages

Fractions, Decimals and Percentages (FDP)

Yesterday, we looked at equivalent Fractions, Decimals and Percentages. Today, we will be applying our knowledge by putting them in order- smallest to biggest/biggest to smallest.

Place these decimals, percentages and fractions on the number line.

$\dfrac{55}{100}$ 90%   0.75

Fractions, Decimals and Percentages (FDP)

Yesterday, we looked at equivalent Fractions, Decimals and Percentages. Today, we will be applying our knowledge by putting them in order- smallest to biggest/biggest to smallest.
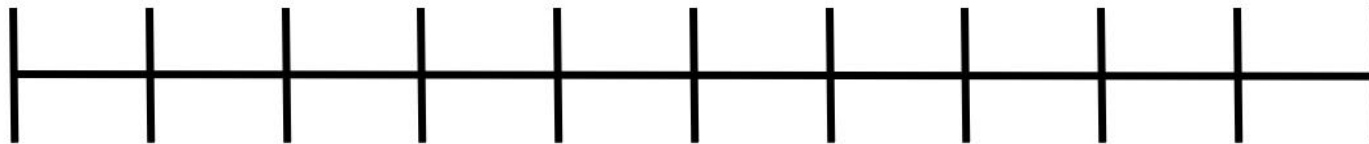
Place these decimals, percentages and fractions on the number line.

$$\frac{55}{100} \qquad 90\% \qquad 0.75$$

0   1

$$1 \div 10 = 0.1$$

Place these decimals, percentages and fractions on the number line.
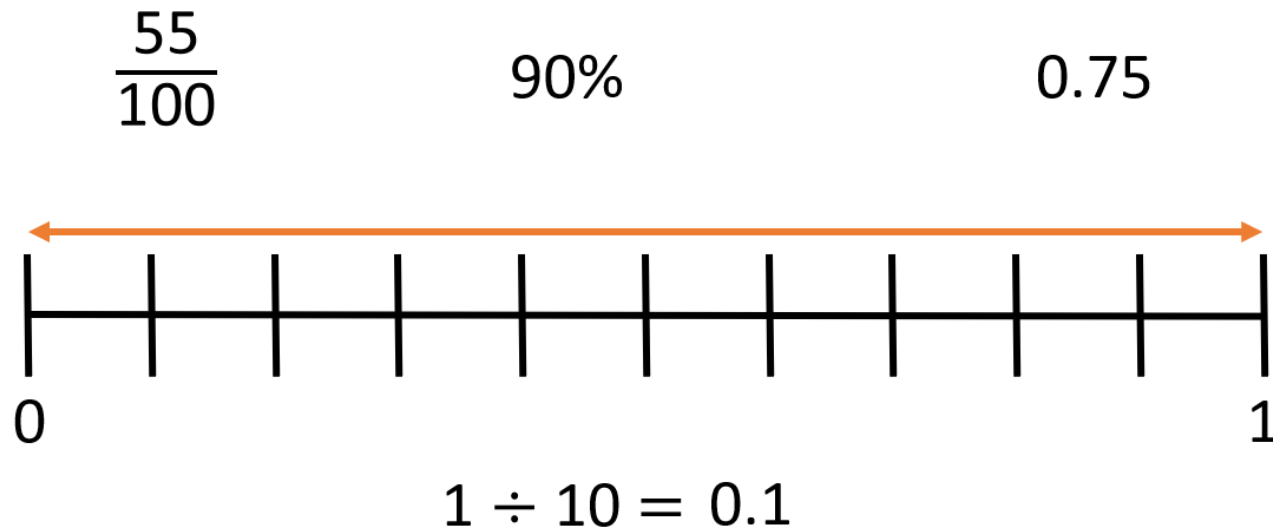
$$\frac{55}{100}$$ 90%   0.75

0   0.1   0.2   0.3   0.4   0.5   0.6   0.7   0.8   0.9   1

$$1 \div 10 = 0.1$$

0.1   10% $$\frac{1}{10}$$
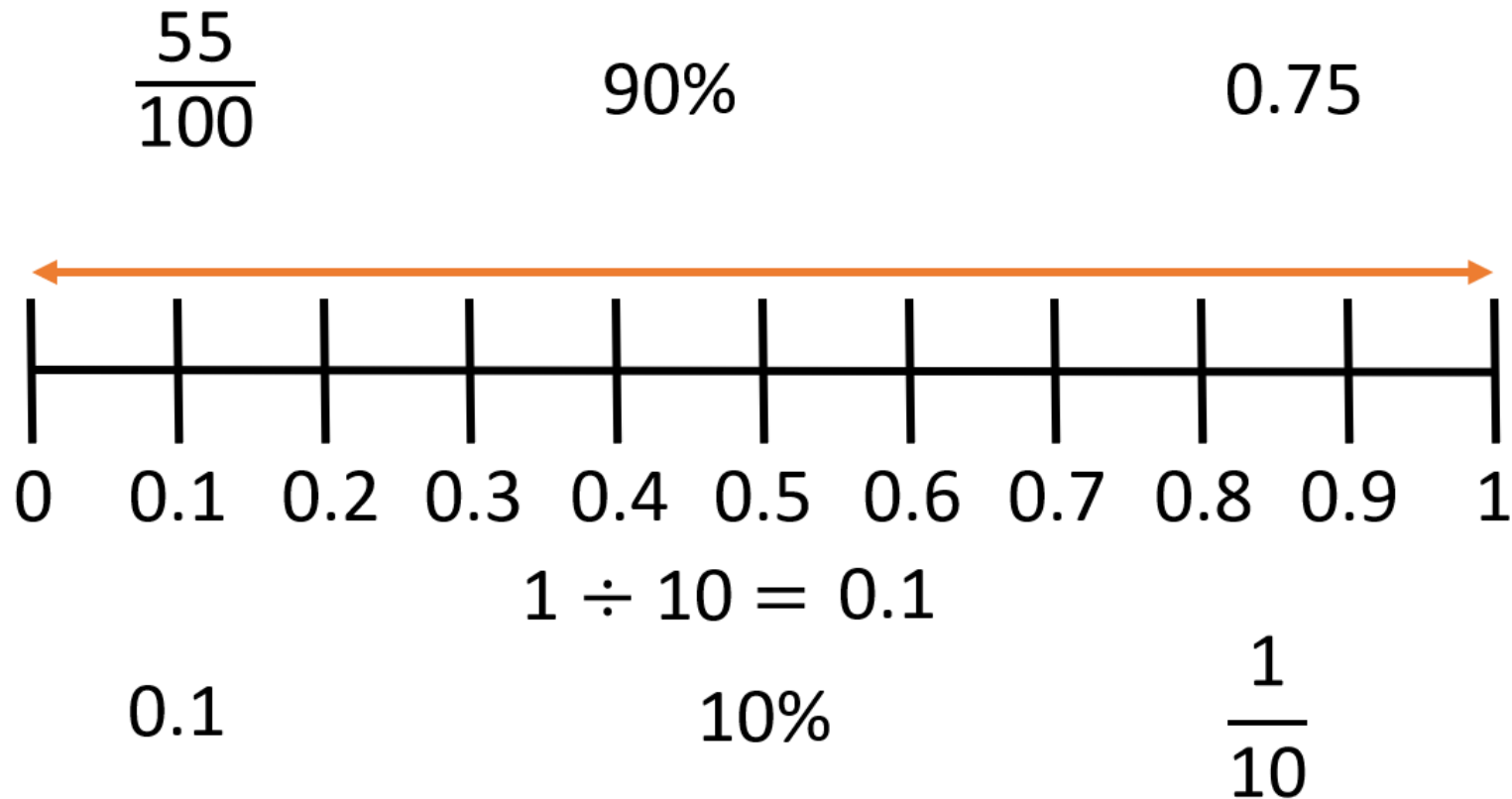
Place these decimals, percentages and fractions on the number line.

Example 2

$$0.6 \qquad \frac{2}{5} \qquad 11\%$$

$$0.6 = \overset{\times 10}{\frac{6}{10}} = \frac{60}{100}$$

$$\frac{2}{5} \overset{\times 2}{=} \frac{4}{10} \overset{\times 10}{=} \frac{40}{100}$$

$$11\% = \frac{11}{100}$$

$$0.6 \qquad \frac{2}{5} \qquad 11\%$$

$$0.6 = \frac{6}{10} \overset{\times 10}{\underset{\times 10}{=}} \frac{60}{100}$$

$$\frac{2}{5} \overset{\times 2}{\underset{\times 2}{=}} \frac{4}{10} \overset{\times 10}{\underset{\times 10}{=}} \frac{40}{100}$$

$$11\% = \frac{11}{100}$$

Ascending order

$$11\% \qquad \frac{2}{5} \qquad 0.6$$

Insert the values provided below in order to make the statement correct.

☐ > ☐ > ☐

0.74   87.5% $\frac{6}{8}$

Insert the values provided below in order to make the statement correct.

$$87.5\% > \frac{6}{8} > 0.74$$

Main Activity

Write these numbers in order of size.
Start with the smallest number.

73% $\frac{2}{3}$ 0.9 $\frac{3}{4}$ 0.87

(2)

Complete the worksheet- Ordering Fractions, Decimals and Percentages.
Complete the RPS worksheet (slide 21, 22 or 23) you are normally given in class- red, blue or yellow.

1. Write these numbers in order of size.
   Start with the smallest number.

   60% $\frac{1}{2}$ 0.3 $\frac{3}{4}$ 0.4

   ....
   (2)

2. Write these numbers in order of size.
   Start with the smallest number.

   $\frac{1}{4}$ 30% $\frac{3}{8}$ 0.2   0.17

   ....
   (2)

3. Write these numbers in order of size.
   Start with the smallest number.

   73% $\frac{2}{3}$ 0.9 $\frac{3}{4}$ 0.87

   ....
   (2)

7.

18% is greater than 0.2

Is Greg correct?
Explain your answer.

....
....
....
(1)

8.

0.64 is less than $\frac{13}{20}$

Is Sophia correct?
Explain your answer.

....
....
....
(1)

11. These are some of Brian's summer exam results.

Art	$\frac{14}{25}$
Biology	64%
German	49%
Latin	$\frac{25}{43}$
Music	$\frac{11}{15}$
Physics	54%

Arrange the subjects in order, starting with the best result.

1a. Deborah has put these fractions, decimals and percentages in order from smallest to largest.

$\frac{1}{2}$ | $\frac{3}{10}$ | 20% | 0.45

Is she correct? Explain your answer.

1b. Henry has put these fractions, decimals and percentages in order from smallest to largest.

0.25 | $\frac{4}{5}$ | 70% | 0.1

Is he correct? Explain your answer.

2a. Complete the calculation using a decimal and a percentage.

$$\frac{3}{4} > 70\% > \boxed{} > \boxed{}$$

Find 3 possibilities.

2b. Complete the calculation using a decimal and a percentage.

$$\frac{2}{10} < 40\% < \boxed{} < \boxed{}$$

Find 3 possibilities.

3a. Joe says,

> If I buy 45% of the cards and Jack buys two quarters, I will have the most.

Is he correct? Explain your answer.

3b. Jamal says,

> If I get 55% of the marbles and Nathan gets six tenths, I will have the most.

Is he correct? Explain your answer.

4a. Frankie has put these fractions, decimals and percentages in order from smallest to largest.

| 22% | $\frac{1}{8}$ | 0.25 | 0.4 |

Is she correct? Explain your answer.

4b. Amy has put these fractions, decimals and percentages in order from smallest to largest.

| 0.45 | $\frac{9}{18}$ | 37.5% | 0.65 |

Is she correct? Explain your answer.

5a. Complete the calculation using a decimal and a percentage.

$$\frac{3}{12} \; < \; 82\% \; < \; \boxed{} \; < \; \boxed{}$$

Find 3 possibilities.

5b. Complete the calculation using a decimal and a percentage.

$$\frac{7}{8} \; = \; 87.5\% \; > \; \boxed{} \; > \; \boxed{}$$

Find 3 possibilities.

6a. Maaria says,

> If I eat 37.5% of the pizza and Paul eats three eighths, I will have eaten the most.

Is she correct? Explain your answer.

6b. Isaac says,

> If I borrow 57% of the pencils and Julie borrows nine fifteenths, I will have the most.

Is he correct? Explain your answer.

7a. Hannah has put these fractions, decimals and percentages in order from largest to smallest.

| 0.781 | $\frac{3}{8}$ | | 0.373 |

She has spilt paint on a percentage to 1 decimal place.

What could it be? Explain your answer.

7b. Callum has put these fractions, decimals and percentages in order from largest to smallest.

| 0.352 | | $\frac{7}{20}$ | 0.245 |

She has spilt paint on a percentage to 1 decimal place.

What could it be? Explain your answer.

8a. Complete the calculation using a decimal and a percentage.

$$\frac{14}{16} > 82.1\% < \boxed{} > \boxed{}$$

Find 3 possibilities.

8b. Complete the calculation using a decimal and a percentage.

$$\frac{20}{32} = 62.5\% > \boxed{} < \boxed{}$$

Find 3 possibilities.

9a. Suzanne says,

> If I use 30 sheets of paper in a pack of 80, and Jim uses 37.5%, Jim will use more because his percentage is greater than the number of sheets that I will use.

What mistake has been made? Explain your answer.

9b. Gail says,

> If I eat 20 sweets in a pack of 80, and Tate eats 0.125 of the pack, this must mean that he will eat less than me, because 0.125 is equal to 12.5 sweets.

What mistake has been made? Explain your answer.

Plenary

Hollie says,

If I eat 87.5% of popcorn and Cerys eats seven tenths, I will have eaten the most.

Is she correct? Explain your answer.

Hollie is correct because...

Plenary

Hollie says,

> If I eat 87.5% of popcorn and Cerys eats seven tenths, I will have eaten the most.

Is she correct? Explain your answer.

Hollie is correct because $\frac{7}{10}$ is equal to 70%, which is 17.5% less than 87.5%.

Email your finished work to your class teacher!

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