Week Commencing: 27.4.20

Year Group: Year 5

Times Table Rockstars website - https://ttrockstars.com/

	Monday	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
Area of Learning	LC: Can you investigate percentages?	LC: Can you understand percentages?	LC: Can you understand percentages as fractions and decimals?	LC: Can you understand percentages as fractions and decimals?	LC: Can you convert between fractions, decimals and percentages?
Activity	Starter – Times Table Rockstars activities **Main Teaching** Go to the White Rose website and watch the video for 'Lesson 3 Understand Percentages this is included under Week 2. Pause the video at around 2 minutes (where it says have a go at questions 1-3 etc) https://whiterosemaths.com/homelearning/year-5/ **Activity** How many different examples of real life percentages can you find? Write a list of them on a piece of paper. Use the internet or other resources to find as many interesting examples as you can. For example:17% of the world have blue eyes. *You might want to find something that you are interested in eg. football – 8.3% of football matches in the premier league last season ended 0-0.*	Starter – Times Table Rockstars activities **Main Teaching** Go to the White Rose website and watch the video for 'Lesson 3 Understand Percentages this is included under Week 2. Watch the rest of the video (ignore the part where it says, 'Have a go at…?'. https://whiterosemaths.com/homelearning/year-5/ **Activity** Complete the questions on percentages on the worksheet below. Tell the chn to take care on the last question to explain their answer. Tell them to remember – percent means <u>out of 100.</u>	Starter – Times Table Rockstars activities **Main Teaching** Go to the White Rose website and watch the video for 'Lesson 4 Percentages as Fractions and Decimals under Week 2. Have a go at the questions below as you work through the video. I have only included the worksheet up to question 3 – the rest will be tomorrow! https://whiterosemaths.com/homelearning/year-5/ **Activity** Complete the worksheet below as you work through the video.	Starter – Times Table Rockstars activities *NB. Continuation of the lesson from yesterday.* **Main Teaching** If your child was confident with yesterday, they might be able to start the worksheet straight away. If not, re-watch the video from yesterday, concentrating on the second half. **Activity** Complete the worksheet below. The problem at the end is quite difficult.	Starter – Times Table Rockstars activities **Main Teaching** Go to the White Rose website and watch the video for 'Lesson Equivalent FDP this is included under Week 2. Ignore the end part where it says 'complete questions 4-7'. https://whiterosemaths.com/homelearning/year-5/ **Activity** Complete the worksheet below.

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.

White Rose Maths – Free Maths home learning resources for all ages. Watch the videos and try the questions.

Primary Stars – Free Maths home learning packs for Year 1 and 2.

BBC Bitesize Primary – Free learning resources available for KS1 and KS2 across all subjects.

I See Maths – Free daily home maths lessons hosted by Gareth Metcalfe. Follow the link for videos, information and resources.

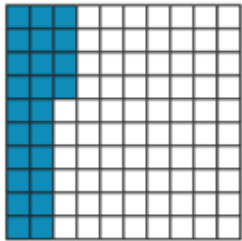Top Marks – Free educational resources and games for English and Maths.

ICT Games – Free educational resources and games for English and Maths.
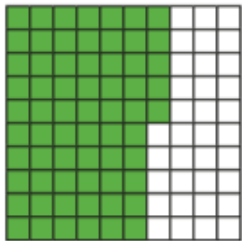
Tuesday Activity – Understanding percentages
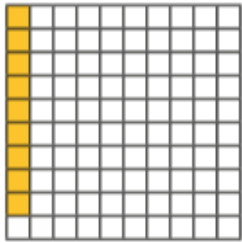
There are ☐ parts out of a hundred shaded.

This is ☐ %.

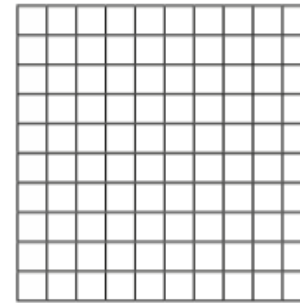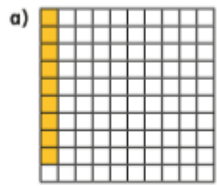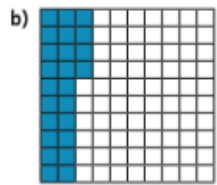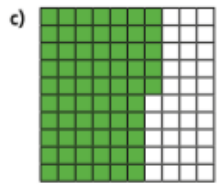There are ☐ parts out of a hundred shaded.

This is ☐ %.

There are ☐ parts out of a hundred shaded.

This is ☐ %.

Shade 15% of the hundred square red.

Shade 32% of the hundred square blue.

What percentage of the hundred square is **not** shaded? ☐ %

a) Is 1% of this bar model shaded? _____

1%

Explain your reasoning.

_____

_____

b) What percentage of each bar model is shaded?

☐ %

☐ %

Tuesday Answers

a)

There are ⬚9⬚ parts out of a hundred shaded.

This is ⬚9⬚ %.

b)

There are ⬚24⬚ parts out of a hundred shaded.
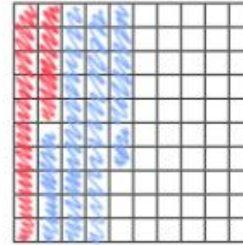
This is ⬚24⬚ %.

c)

There are ⬚65⬚ parts out of a hundred shaded.

This is ⬚65⬚ %.

Shade 15% of the hundred square red.

Shade 32% of the hundred square blue.

What percentage of the hundred square is not shaded? ⬚53⬚ %

a) Is 1% of this bar model shaded? __No__

1%									

Explain your reasoning.

It's split into 10 parts so each part is 10%
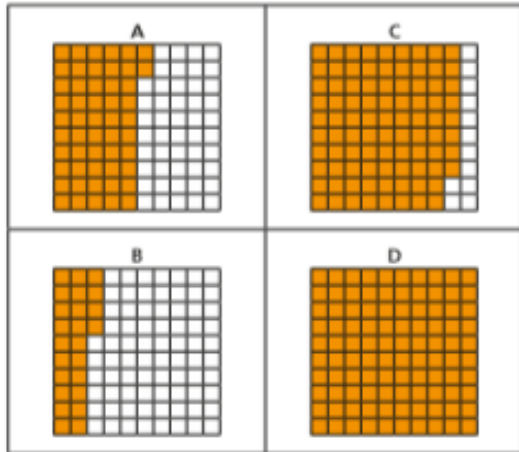
b) What percentage of each bar model is shaded?

⬚30⬚ %

⬚70⬚ %

Wednesday Activity

Percentages as fractions and decimals

1 Here are four hundred squares.

A   C

B   D

Complete the table.

Hundred square	Percentage	Fraction	Decimal
A		$\frac{52}{100}$	
B			
C			
D			

2 Prove that 0.2 is equal to 20%.

You may use the hundred square to help you.

_____

_____

_____

_____
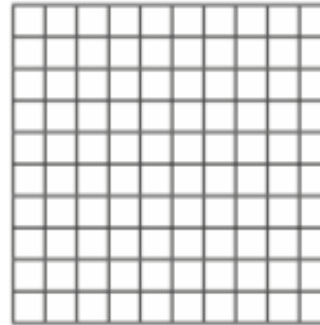
Why do you think some people think that 0.2 is equal to 2%?

3 Complete the fraction, decimal and percentage equivalents.

a) $32\% = \frac{\boxed{}}{100} = \boxed{}$

$35\% = \frac{\boxed{}}{100} = \boxed{}$

$48\% = \frac{\boxed{}}{100} = \boxed{}$

c) $0.29 = \boxed{}\% = \frac{\boxed{}}{100}$

$0.71 = \boxed{}\% = \frac{\boxed{}}{100}$

$0.03 = \boxed{}\% = \frac{\boxed{}}{100}$

b) $\frac{17}{100} = \boxed{}\% = \boxed{}$

$\frac{9}{100} = \boxed{}\% = \boxed{}$

$\frac{90}{100} = \boxed{}\% = \boxed{}$

Wednesday answers

Complete the table.

Hundred square	Percentage	Fraction	Decimal
A	52%	$\frac{52}{100}$	0·52
B	24%	$\frac{24}{100}$	0·24
C	88%	$\frac{88}{100}$	0·88
D	100%	$\frac{100}{100}$	1

Prove that 0.2 is equal to 20%.

You may use the hundred square to help you.
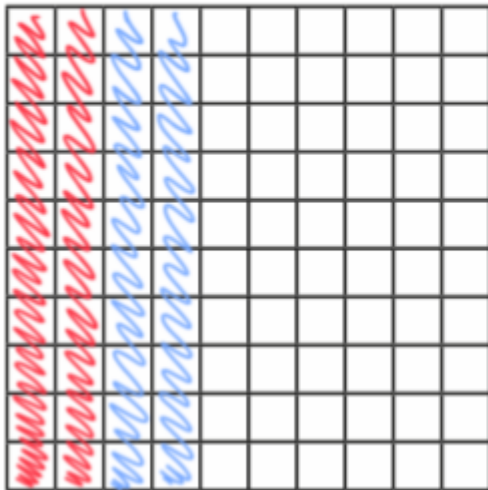
$0·2 = 2 \text{ tenths} = \frac{2}{10} = \frac{20}{100}$

$20\% = \frac{20}{100}$

Complete the fraction, decimal and percentage equivalents.

a) 32% = $\frac{32}{100}$ = 0·32

35% = $\frac{35}{100}$ = 0·35

48% = $\frac{48}{100}$ = 0·48

b) $\frac{17}{100}$ = 17 % = 0·17

$\frac{9}{100}$ = 9 % = 0·09

$\frac{90}{100}$ = 90 % = 0·9

c) 0.29 = 29 % = $\frac{29}{100}$

0.71 = 71 % = $\frac{71}{100}$

0.03 = 3 % = $\frac{3}{100}$

Write <, > or = to complete the statements.

a) 50% ◯ $\frac{5}{100}$

d) $\frac{40}{100}$ ◯ 40%

b) 25% ◯ $\frac{50}{100}$

e) $\frac{70}{100}$ ◯ 7%

c) 14% ◯ $\frac{41}{100}$

f) 82% ◯ $\frac{82}{100}$

Write the values in order from smallest to greatest.

a) 33% $\frac{30}{100}$ 3% $\frac{13}{100}$

_____

b) 299% $\frac{91}{100}$ 9% $\frac{9}{10}$

_____

c) 2.5 $\frac{25}{100}$ 250   25% of 100 $\frac{25}{1000}$

_____

Jack and Dora go shopping with the same amount of money.

Jack spends $\frac{1}{3}$ of his money.

Dora spends 30% of her money.

a) Who spends more money? _____

Use fraction and percentage equivalence to explain
your answer.

b) Jack and Dora each started with £300

How much money do they each have left?

Jack [   ]   Dora [   ]

Circle all the fractions that are greater than or equal to 50%.

$\frac{10}{50}$ $\frac{4}{5}$ $\frac{50}{100}$

$\frac{30}{80}$ $\frac{1}{50}$ $\frac{70}{140}$

Thursday Activity Answers

Write <, > or = to complete the statements.

a) 50% (>) $\frac{5}{100}$ d) $\frac{40}{100}$ (=) 40%

b) 25% (<) $\frac{50}{100}$ e) $\frac{70}{100}$ (>) 7%

c) 14% (<) $\frac{41}{100}$ f) 82% (=) $\frac{82}{100}$

a) 33% $\frac{30}{100}$ 3% $\frac{13}{100}$

3%, $\frac{13}{100}$, $\frac{30}{100}$,   33%

b) 299% $\frac{91}{100}$ 9% $\frac{9}{10}$

9%, $\frac{9}{10}$, $\frac{91}{100}$,   299%

c) 2.5 $\frac{25}{100}$ 250   25% of 100 $\frac{25}{1000}$

$\frac{25}{1000}$, $\frac{25}{100}$,   2.5,   25% of 100,   250

Circle all the fractions that are greater than or equal to 50%.

| $\frac{10}{50}$ | $\frac{4}{5}$ | $\frac{50}{100}$ |

| $\frac{30}{80}$ | $\frac{1}{50}$ | $\frac{70}{140}$ |

Jack and Dora go shopping with the same amount of money.

Jack spends $\frac{1}{3}$ of his money.

Dora spends 30% of her money.

a) Who spends more money? __Jack__

Use fraction and percentage equivalence to explain your answer.

$\frac{1}{3} = \frac{10}{30}$

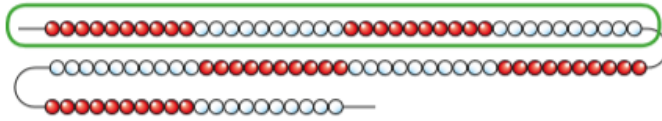$30\% = \frac{1}{10} = \frac{9}{30}$

b) Jack and Dora each started with £300
How much money do they each have left?

Jack [£200]   Dora [£210]

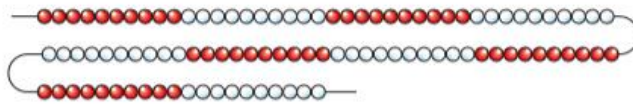**1** Rosie makes a number on a 100 bead string.

a) What fraction of the bead string is circled? ☐

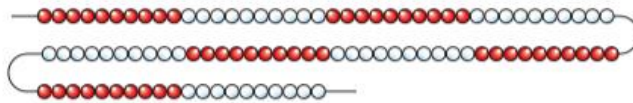b) Write the fraction as a decimal. ☐

c) Write the decimal as a percentage. ☐ %

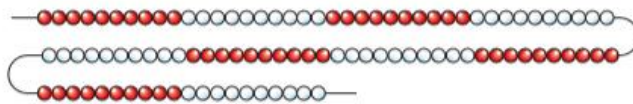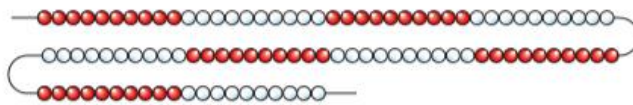**2** Circle the value on each 100 bead string.

a) 70%

b) 0.08

c) $\dfrac{45}{100}$

d) 95%

3 a) What fraction, decimal and percentage of the hundred square is shaded?
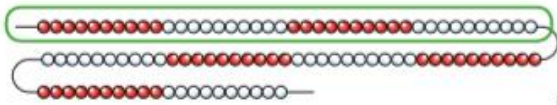
Hundred square	Fraction	Decimal	Percentage

b) Complete the table.

Quarters	Hundredths	Decimal
$\dfrac{1}{4}$	$\dfrac{\square}{100}$	
$\dfrac{\square}{4}$	$\dfrac{50}{100}$	
		0.75

Friday Activity

Rosie makes a number on a 100 bead string.

a) What fraction of the bead string is circled? $\frac{4}{10}$
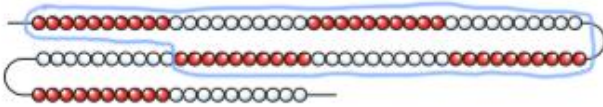
b) Write the fraction as a decimal. 0.4
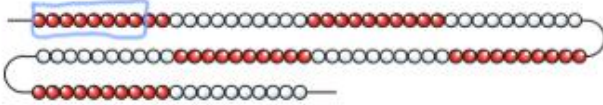
c) Write the decimal as a percentage.
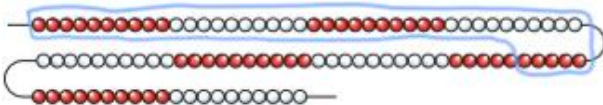
40 %

Circle the value on each 100 bead string.

a) 70%

b) 0.08

c) $\frac{45}{100}$

d) 95%
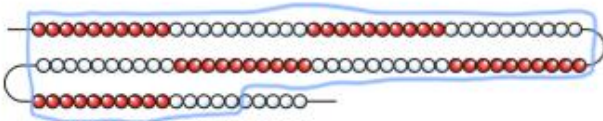
Hundred square	Fraction	Decimal	Percentage
	$\frac{1}{4}$	0·25	25%
	$\frac{1}{2}$	0·5	50%
	$\frac{3}{4}$	0·75	75%

Complete the table.

Quarters	Hundredths	Decimal
$\frac{1}{4}$	$\frac{25}{100}$	0·25
$\frac{2}{4}$	$\frac{50}{100}$	0·5
$\frac{3}{4}$	$\frac{75}{100}$	0.75