Home Learning Pack
Year 6

Monday 8.11.21

Maths – Fractions

Compare and order (denominator)

Here is a link with videos to support you with this topic.

Autumn Week 9 - Number: Fractions | White Rose Maths

Start where you feel comfortable in the math's activities and choose your level of challenge.

1) Complete the equivalent fraction.

$$\frac{2}{5} \quad \frac{\square}{20} =$$

2) Write the first 7 multiples of 7

3) Write the first 7 multiples of 4

4) What is the lowest common multiple of 4 and 7?

1) Complete the equivalent fraction.

$$\frac{2}{5} \quad \frac{\square}{20} = \qquad \times 4$$

2) Write the first 7 multiples of 7

7, 14, 21, 28, 35, 42, 49

3) Write the first 7 multiples of 4

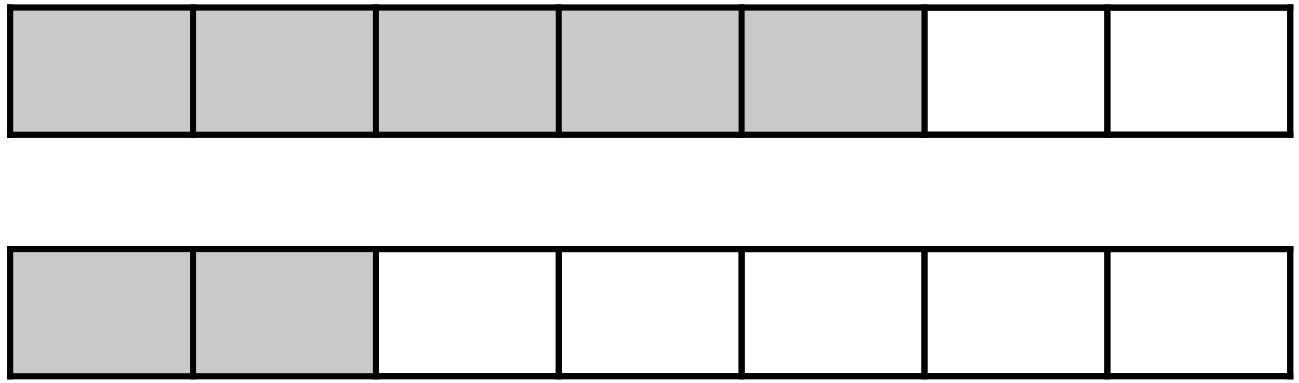
4, 8, 12, 16, 20, 24, 28

4) What is the lowest common multiple of 4 and 7?

28

Write $>$, $<$ or $=$ to compare the fractions

$$\frac{5}{7} \bigcirc \frac{2}{7}$$

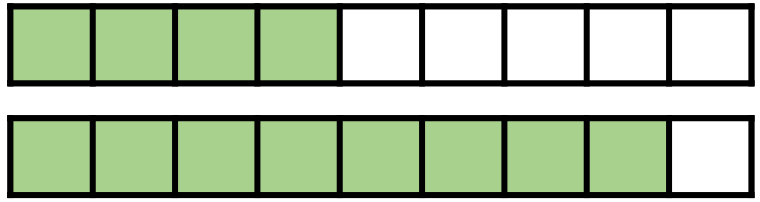


$\frac{5}{7}$ is greater than $\frac{2}{7}$

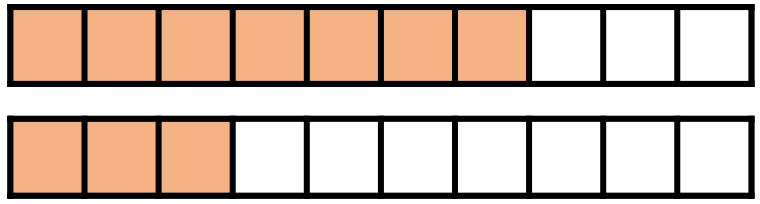
Have a think

Write $>, <$ or $=$ to compare the fractions

$\frac{4}{9} < \frac{8}{9}$



$\frac{7}{10} > \frac{3}{10}$

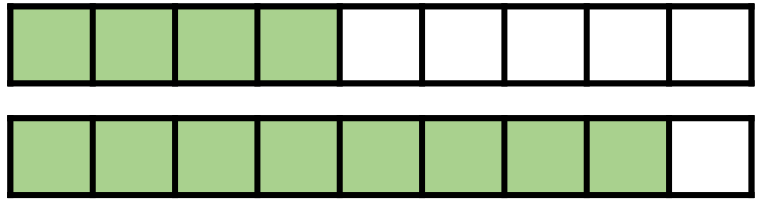


What's the same and what's different?

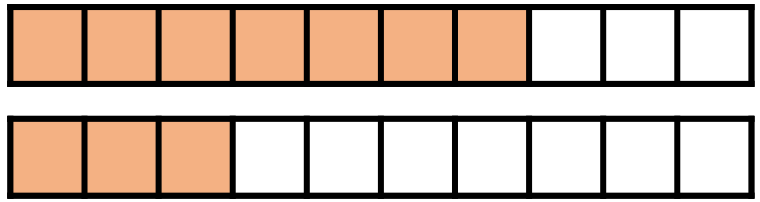
What do you notice?

Write >, < or = to compare the fractions

$\frac{4}{9} < \frac{8}{9}$



$\frac{7}{10} > \frac{3}{10}$



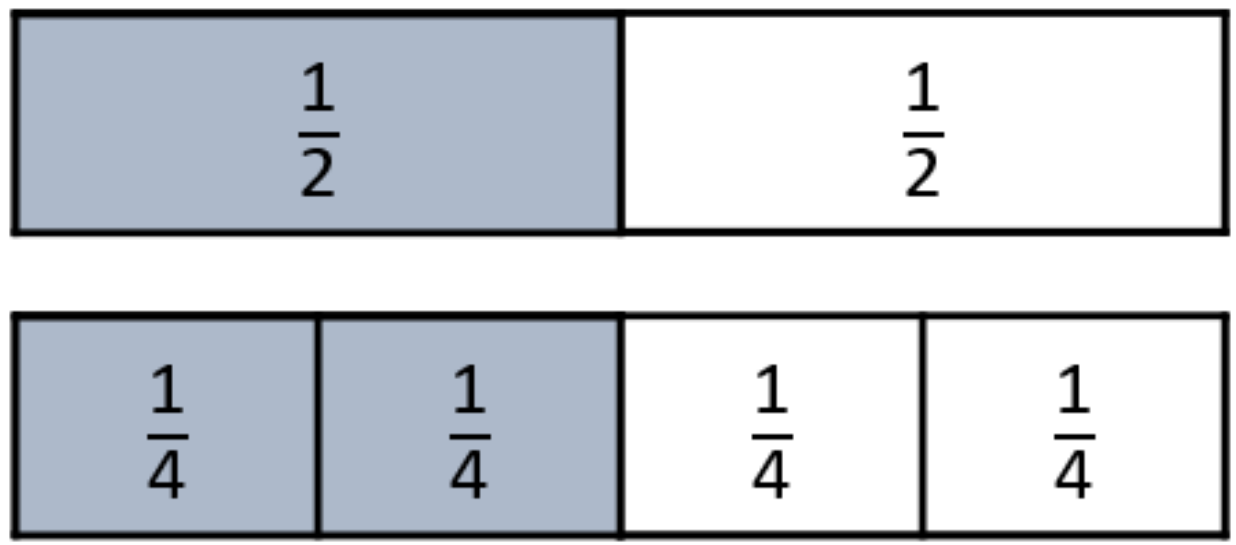
What's the same and what's different?

When the denominators are the same, the greater the numerator, the greater the fraction.

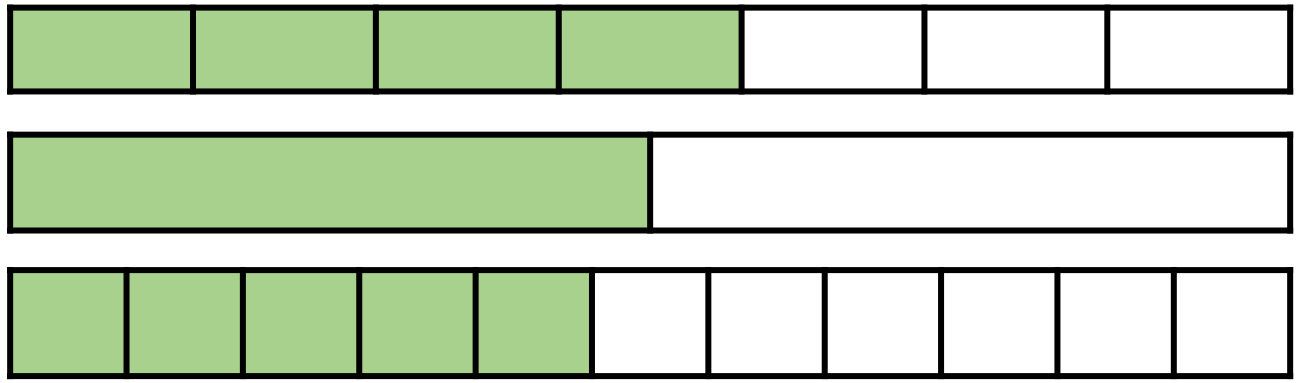
What do you notice?

I know that $\frac{4}{7}$ is greater than $\frac{5}{11}$ without having to draw a bar model.

$\times 2 \left(\frac{1}{2} \right) \div 2$ $\div 2 \left(\frac{2}{4} \right) \times 2$



I know that $\frac{4}{7}$ is greater than $\frac{5}{11}$ without having to draw a bar model.



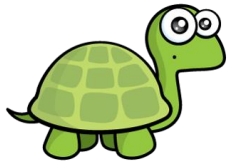
$\frac{4}{7}$

$7 \div 2 = 3.5$

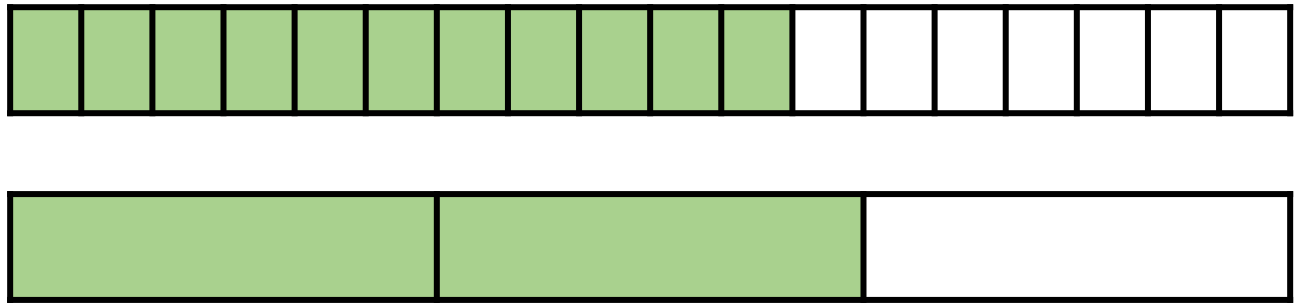
$\frac{5}{11}$

$11 \div 2 = 5.5$

Have a go at questions 1 and 2 on the worksheet



11 is greater than 2 so $\frac{11}{18}$ is greater than $\frac{2}{3}$



$$\frac{11}{18} \not> \frac{2}{3}$$

Write $>$, $<$ or $=$ to compare the fractions

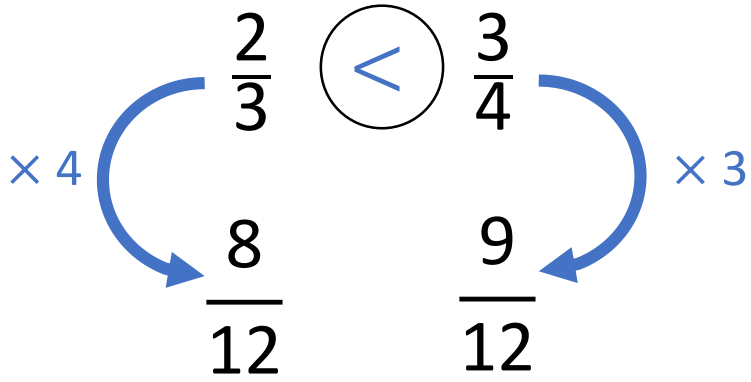
$$\frac{2}{5} \; < \; \frac{7}{15}$$

Multiples of 5: 5, 10, 15

$$\frac{2}{5} \overset{\times 3}{=} \frac{6}{15}$$

$$\frac{6}{15} < \frac{7}{15}$$

Write $>$, $<$ or $=$ to compare the fractions



Multiples of 3: 3, 6, 9, 12, 15, 18

Multiples of 4: 4, 8, 12, 16, 20

Rosie and Amir both baked some cakes. They got a little peckish and ate part of a cake!

I have $2\frac{5}{6}$ cakes left.

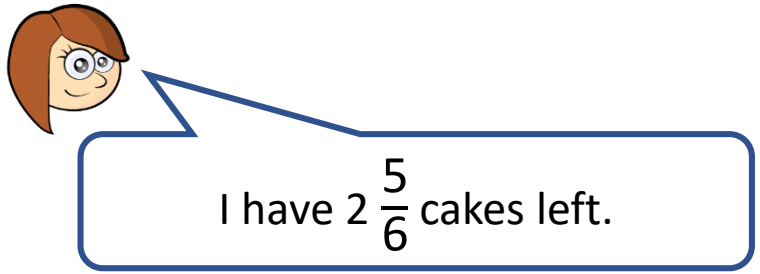
I have $2\frac{4}{5}$ left.

Who has the most cake left?

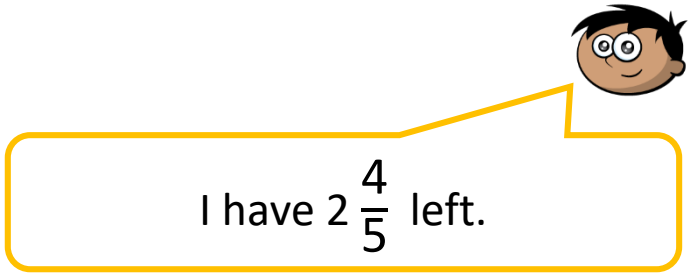
$$\frac{14}{5} = 14 \div 5 = 2\frac{4}{5}$$

Have a think

Rosie and Amir both baked some cakes. They got a little peckish and ate part of a cake!



I have $2\frac{5}{6}$ cakes left.



I have $2\frac{4}{5}$ left.

Who has the most cake left?

$\frac{5}{6}$ → (× 5) → $\frac{25}{30}$

$\frac{4}{5}$ → (× 6) → $\frac{24}{30}$

Multiples of 6: 6, 12, 18, 24, 30

Multiples of 5: 5, 10, 15, 20, 25, 30

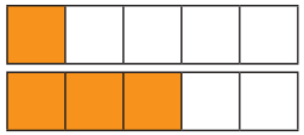
Have a go at the questions on the worksheet

Compare and order (denominator)

1 Write <, > or = to compare the fractions.

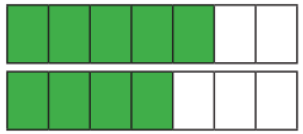
Use the bar models to help you.

a)



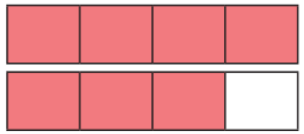
$\frac{1}{5}$ ◯ $\frac{3}{5}$

b)



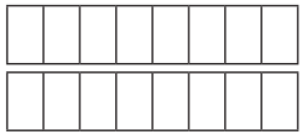
$\frac{5}{7}$ ◯ $\frac{4}{7}$

c)



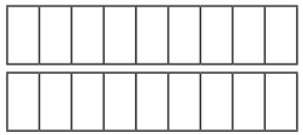
$\frac{4}{4}$ ◯ $\frac{3}{4}$

d)



$\frac{3}{8}$ ◯ $\frac{7}{8}$

e)



$\frac{4}{9}$ ◯ $\frac{6}{9}$

f) What do you notice about your answers?

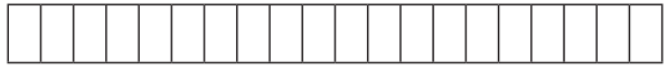
g) Complete the sentence.

When the denominators are the same, the _____

the numerator, the _____ the fraction.

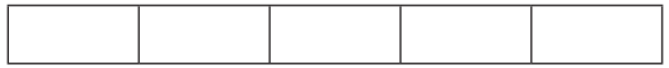
2 **a)** Colour the bar models to show the fractions.

$\frac{14}{20}$



$\frac{9}{10}$

$\frac{4}{5}$



$\frac{3}{4}$

b) Use the bar models to sort these fractions in order from greatest to smallest.

$\frac{14}{20}$ $\frac{9}{10}$ $\frac{4}{5}$ $\frac{3}{4}$

greatest smallest

c) Order the fractions from smallest to greatest.

$\frac{7}{10}$ $\frac{1}{2}$ $\frac{2}{5}$ $\frac{3}{10}$

smallest greatest

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3 Amir is comparing the fractions $\frac{4}{15}$ and $\frac{3}{10}$

$\frac{4}{15} = \frac{8}{30}$ $\frac{3}{10} = \frac{9}{30}$

$\frac{9}{30}$ is greater than $\frac{8}{30}$

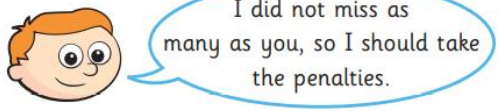
$\frac{3}{10}$ is greater than $\frac{4}{15}$

Explain Amir's method.

4 Ron and Rosie are practising penalties.

Ron scored 7 out of 10.

Rosie scored 23 out of 30



Compare fractions to explain who should take penalties for the school team.

5 Write <, > or = to compare the fractions.

a) $\frac{3}{4}$ ◯ $\frac{5}{6}$

b) $\frac{2}{3}$ ◯ $\frac{5}{9}$

c) $\frac{2}{3}$ ◯ $\frac{7}{8}$

d) $\frac{3}{5}$ ◯ $\frac{5}{7}$

e) $\frac{9}{10}$ ◯ $\frac{3}{4}$

f) $\frac{9}{10}$ ◯ $\frac{19}{20}$

6 Annie, Tommy and Kim are making flags for the school fair.

Annie has completed $3\frac{3}{4}$ flags, Tommy has completed $3\frac{2}{3}$ flags and Kim has completed $\frac{18}{5}$ flags.

Who has completed the most flags?

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1) Some of the numerators and denominators are missing from this comparison statement.

$$\frac{2}{\square} < \frac{\square}{6} < \frac{\square}{9} < \frac{20}{\square}$$

Can you find different ways to make it mathematically correct?

2) Use the numbers in the stars to find as many possible answers to the challenge.

a) Create four improper fractions which all have different denominators and place them in descending order. Show your working out using common denominators.

b) Create four proper fractions which all have different denominators and place them in ascending order. Show your working out using common denominators.

Name:_____

Week 9 Session 1
2020-21
Full Programme
4 a week

Times Tables Rock Stars

Licensed to East Ayton Primary School

6,7 Times Tables

1	6 × 12 =	21	7 × 2 =	41	2 × 7 =		
2	6 × 10 =	22	6 × 6 =	42	3 × 7 =		
3	6 × 8 =	23	6 × 4 =	43	9 × 7 =		
4	6 × 1 =	24	6 × 4 =	44	5 × 6 =		
5	7 × 11 =	25	7 × 12 =	45	12 × 7 =		
6	6 × 12 =	26	7 × 10 =	46	9 × 7 =		
7	7 × 1 =	27	7 × 2 =	47	5 × 6 =		
8	7 × 9 =	28	6 × 11 =	48	10 × 7 =		
9	7 × 2 =	29	7 × 1 =	49	12 × 7 =		
10	6 × 9 =	30	7 × 8 =	50	4 × 7 =		
11	7 × 1 =	31	11 × 6 =	51	2 × 7 =		
12	6 × 1 =	32	7 × 6 =	52	5 × 6 =		
13	6 × 10 =	33	5 × 6 =	53	7 × 7 =		
14	7 × 7 =	34	4 × 6 =	54	11 × 7 =		
15	6 × 2 =	35	2 × 7 =	55	6 × 6 =		
16	6 × 11 =	36	3 × 6 =	56	10 × 7 =		
17	6 × 10 =	37	3 × 7 =	57	3 × 6 =		
18	6 × 9 =	38	1 × 7 =	58	6 × 6 =		
19	6 × 1 =	39	6 × 6 =	59	2 × 7 =		
20	7 × 5 =	40	4 × 6 =	60	4 × 6 =		

Time taken

:

3 minute time limit

Score

60

What's your rock status?

WANNABE
< 18 correct in 3 mins

GARAGE ROCKER
18-19 correct in 3 mins

BUSKER
20-21 correct in 3 mins

GIGGER
22-24 correct in 3 mins

UNSIGNED ACT
25-29 correct in 3 mins

BREAKTHROUGH ARTIST
30-35 correct in 3 mins

SUPPORT ACT
36-44 correct in 3 mins

HEADLINER
45-59 correct in 3 mins

ROCK STAR
All correct in ≤ 3mins

ROCK LEGEND
All correct in ≤ 2min

ROCK HERO
All correct in ≤ 1 min

TIMES TABLES ROCK STARS

Guided Reading

All about...

Rainforest Deforestation

Rainforests are an essential part of our planet, providing oxygen, absorbing carbon dioxide and housing 50% of the animal and plant species of the planet. Not to mention, the medicines and cures that are made using plants only found in a rainforest environment.

Deforestation

Deforestation is the name given to the destruction of the rainforests and this is being done by burning them, chopping down the trees, or in some cases, flooding the areas. This is happening so fast that an area the size of twenty football pitches is being destroyed every minute! If the current rate of deforestation continues, it will take less than a hundred years to destroy all the rainforests on Earth.

Fact File in Numbers

- 20% of the world's oxygen is produced in the Amazon forest.
- 28,000 species of animals are expected to become extinct in the next 25 years due to deforestation.
- $\frac{1}{2}$ of the tropical rainforests that we had have already gone.

Why are they being destroyed?

The biggest reason rainforests are cleared is to make space for food, including cattle to be farmed for cheap beef and also growing large crops, such as soya beans and palm oil. In addition, other causes of deforestation, which are also related to making money include; chopping down and using the wood from the forest, building roads for mining metals, gold or diamonds, flooding areas to make dams to generate electricity and also digging for oil.

How can they be saved?

There are plenty of charities fighting against deforestation and people can always help by raising money for those charities. Also, think about the reasons that the forests are being destroyed and how some little changes in your everyday habits could help. For example, the cheap beef farmed in the areas that used to be rainforest land is often used in fast food chains. Could you avoid eating fast food from these outlets? You could also check on your supermarket food labels for the country of origin of any meat you buy. Was it farmed in an area where deforestation is taking place? You could also use rainforest-friendly wood so you know it is not a by-product of deforestation. Finally remember, paper comes from trees so any paper saving you can do, as well as recycling, will help the environment.

Questions about Rainforest Deforestation

1. Name a reason not to destroy rainforests given in the first paragraph.

2. Name **two** of the three ways given that a rainforest can be destroyed.

3. What **percentage** of the rainforests has already gone?

4. In the fact file, what does the author say will happen in the next quarter of a century?

5. Why does saving paper help the rainforests?

6. Why has the author used an exclamation mark in paragraph two?

7. What **fraction** of the earth's plant and animal species live in the rainforests?

8. List **two** main reasons why deforestation is occurring.

9. Which rainforest produces 20% of the world's oxygen?

10. What is your opinion about deforestation? How could you help to stop it?

Violet never wanted to move to Perfect.

Who wants to live in a town where everyone has to wear glasses to stop them going blind? And who wants to be neat and tidy and perfectly behaved all the time?

Violet quickly discovers there's something weird going on in the town – she keeps hearing voices, her mam is acting strange and her dad has disappeared.

When she meets Boy she realizes that her dad is not the only person to have vanished…and that the mysterious Watchers are guarding a perfectly creepy secret!

1) Look at the front cover: make a prediction about the story by using the title and the images on the front of the book.

_____

_____

_____ **(2 marks)**

2) Read the blurb. Why do you think everyone goes blind in Perfect?

_____ **(1 mark)**

3) Do you think that the place called Perfect is perfect? Explain your answer.

_____

_____

_____

_____ **(3 marks)**

English

For the next part of our Vikings/Beowulf topic, we will be writing diary entries from Beowulf's point of view.
But first, we need to recap the story so far…

Use the following video link and watch from the beginning to 17:36.
Animated Epics: BEOWULF (1998) TV Movie [360p] HQ - Classic animation – YouTube

We will be writing four separate diary entries.

Part 1 – A brief retelling of Beowulf's fight with Grendel. He has kept his word and honoured the Danes.
Part 2 – A new threat has appeared. Describe the devastation Grendel's Mother wrought during the night. Describe Beowulf's feelings as he sets off to fight her.
Part 3 – Unferth's gift. Beowulf's feelings as he swims deeper into the earth. Beowulf fights Grendel's Mother.
Part 4 – Beowulf returns victorious. Hrothgar thanks Beowulf for his courage and heroism but tells him that his youth and strength will not last forever.

Use this link to support you when writing your diary. Try to include as many genre specific features as you can!
Diary writing - Year 6 - P7 - English - Home Learning with BBC Bitesize - BBC Bitesize

Here is an example text for you to use to support you.

Part 1 - A brief retelling of Beowulf's fight with Grendel. He has kept his word and honoured the Danes.

460AD

I have defeated Grendel. Finally, the beast has been struck down and his curse has been lifted from this good land. He was a terrible opponent – the strongest I have encountered. Our battle did not last long; I was able to grip his arm tightly which hindered him greatly. I felt him weaken and with all my might I twisted his arm – ripping bone, muscle, and sinew. Grendel let out a terrible screech which forced me to cover my ears as he finally broke free from my grip. The last I saw of the beast was a shadowy figure limping back to his swamp.

The great mead hall was repaired and tidied for a celebratory feast. The noble Hrothgar and his kindly wife bestowed many great riches upon me for which I am most grateful; however, most prized to me is Hrothgar's honour, love and gratitude. I have kept my word and I hope that the Danes will now be free from the yoke of oppression.

Music

Viking Saga Songs 4: Sing us a saga

Check out the link for the next part in our Viking Saga Songs.

Viking Saga Songs. 4: Sing us a saga - BBC Teach

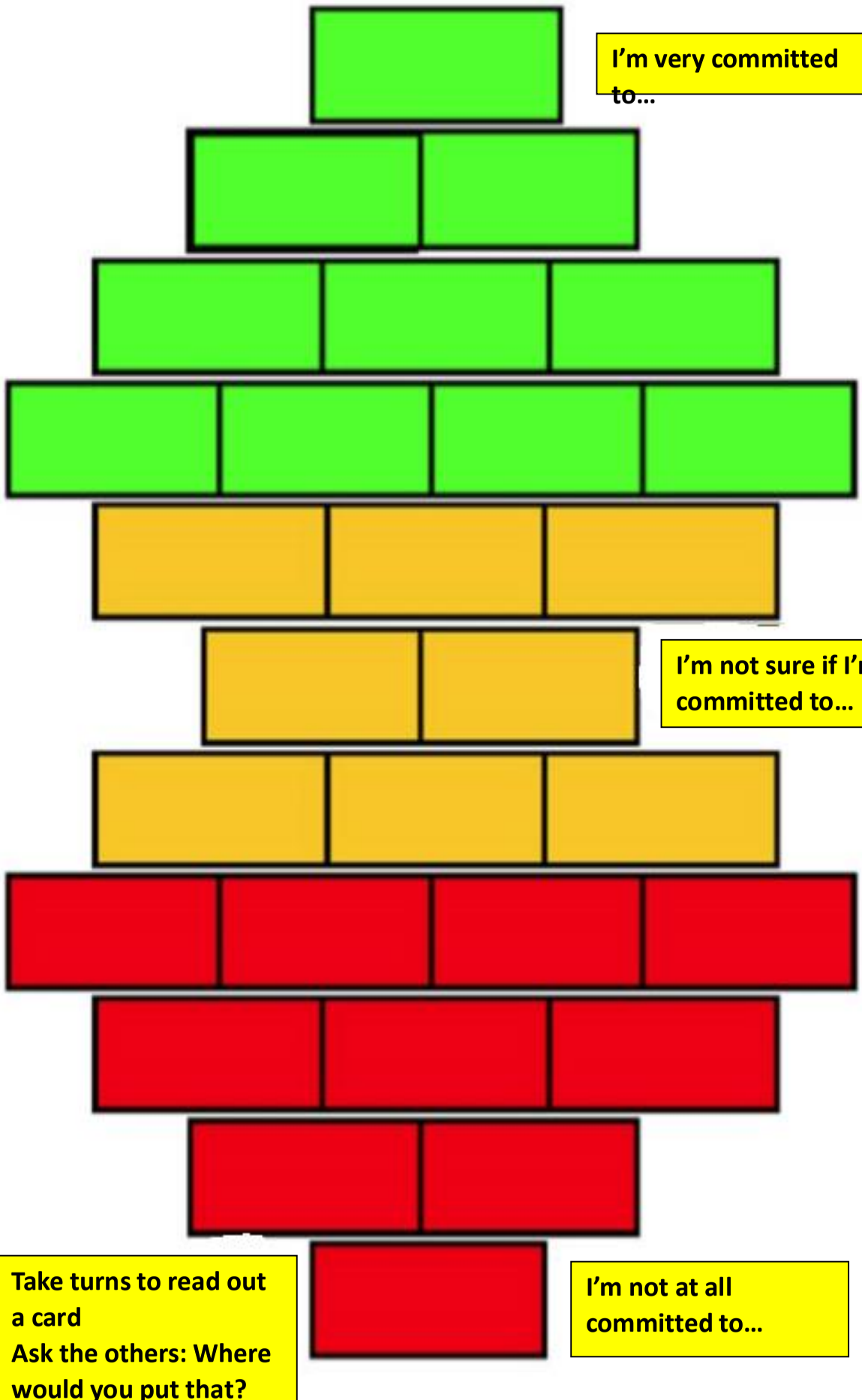
R.E

LO: To think about the impacts of religious commitments on life

Use the game board and cards on the next slide that list many commitments including religious ones. You can find the rules for the game on the game board.

- Why have you selected the ones that you put in the first group?
- What makes these commitments most important?
- What difference do these commitments make?
- Which 5 commitments do you think a Christian might put top of the list, and why.

Loving my family	Doing what my mum says	Being kind to my friends
Getting better at football	Being a better dancer	Helping people less fortunate than me
Caring for my animals	My future	Getting a lot of money
My God	Going to bed on time	Doing my homework
Being part of the community	Never being racist	Looking after my brother and / or sister
Getting a brilliant job	My music: so I practice a lot	My art: so I practice a lot
Being a generous person	Being a happy person	Being a good person
Being a friendly person	Playstation, X Box and Wii	Listening to wise advice
Making the world a better place	Worshipping at my holy place	Eating a good diet



I'm very committed to…

I'm not sure if I'm committed to…

I'm not at all committed to…

- Take turns to read out a card
- Ask the others: Where would you put that?
- Ignore them and put it where it goes for you.
- Move one, and place a new one, when it is your turn.

Ahimsa (Hindu)

Respect for all living things and avoidance of violence towards others.

Grace (Christian)

The love and mercy given by God because God desires people to have it, not necessarily because of anything they have done to earn it.

Ummah (Islam)

The whole community of Muslims bound together by ties of religion.

Identify your own five top commitments and suggest why you have them.

For example;

My first commitment is to my guinea pigs.

This matters to me because I've had them for a long time.

I show I'm committed by cleaning out their hutch, even though it is smelly.

Use the writing frame below.

My first commitment is to ...

This matters to me because ...

I show I'm committed by ...