

Tuesday 19<sup>th</sup> May 2020

Good Morning everybody - I hope you are all ok? Weather was good yesterday so that's always a bonus!

This week is National Mental Health Awareness Week (May 18<sup>th</sup> - 22<sup>nd</sup> May). We know it is important to look after our mental health, talk to someone if you are worried or scared, do things that make you happy and act in a way that makes others happy. I have spoken to you before about taking time to relax and do things we enjoy. I like listening to history podcasts in my spare time, I like to learn something new and find out about different times in the past - I'd like to remind you about the 'Homeschool History Podcast' on BBC Sounds. There are now lots of episodes to choose from and I think they are very entertaining.

EPISODES (6 AVAILABLE)



### Homeschool History

Pocahontas

Join Greg Jenner for a fun homeschool history lesson on the life of Pocahontas.

15 mins | 18 May 2020

Here is the link for the website: <https://www.bbc.co.uk/sounds/series/m000hmmf>

### Yesterday's maths activity answers.

#### Section B - some answers are to 3 decimal places

1. 2.1	2. 8.7	3. 11.9	4. 4.3	5. 7.6	6. 4.2	7. 5.4
8. 9.8	9. 5.125	10. 3.625	11. 7.375	12. 8.875	13. 6.33	14. 10.55
15. 2.33	16. 7.77	17. 4.166	18. 5.66	19. 3.714	20. 5.58	21. 6.5
22. 12.75	23. 2.727	24. 7.833	25. 9.333	26. 4.333	27. 11.5	28. 8.25
29. 9.375	30. 11.666	31. 8.571	32. 7.41	33. 9.166	34. 6.7	35. 5.666
36. 11.272						

#### Section C - some answers are to 3 decimal places

1. 25	2. 23	3. 93	4. 17	5. 35	6. 101	7. 31
8. 35	9. 5.833	10. 8.4	11. 7.333	12. 2.1	13. 5.625	14. 4.571
15. 12.75	16. 8.25	17. 7.272	18. 6.666	19. 9.2	20. 17.1	21. 8.857
22. 8.727	23. 15.2	24. 15.75	25. 12.083	26. 12.375	27. 9.333	28. 22.5
29. 8.888	30. 9.545	31. 12.142	32. 2.97			

There were some really tough questions yesterday so don't worry if you made a few mistakes!

## Maths Task – Fraction Word Problems

### Finding Fractions of Amounts

To find the fraction of an amount you need to divide your number by the denominator, then multiply your answer by the numerator.

$$\frac{2}{6} \text{ of } 72 \div$$

72 divided by 6 = 12

Next, I need to multiply my answer by the numerator.

$$12 \times 2 = 24$$

2 of 72 is therefore 24!

6

Remember – to find a fraction of a number you need to divide by the bottom and times by the top. See example on the left. Below are some worded problems where you will need to find a fraction of an amount to help you answer the question. Read the questions carefully – sometimes there may be more than one step to carry out. Have a go – do your best and don't forget to email if you need help and support.

Have a go at completing section A if you are feeling less confident. Those of you that want to can complete all the sections if you so wish! 😊

### and quantities.

#### Example

The Hadrian's Wall Path is 84 miles long. Esme has walked five twelfths of its length. How much further does she have to walk to complete the whole Path?

$$\begin{aligned} 84 \div 12 &= 7 \\ 7 \times 5 &= 35 \\ 84 - 35 &= 49 \\ \text{Answer } 49 \text{ miles} \end{aligned}$$



#### A

- 1 There are 24 footballs. One third need pumping up. How many are ready to use?
- 2 A television programme lasts for one hour. One fifth of the time is adverts. How long is the programme itself?
- 3 There are 120 tissues in a box. One sixth are used. How many are left?
- 4 There are 36 cars in a car park. A quarter of the cars are white. How many are not white?
- 5 A bicycle costs £70. In a sale the price is cut by one tenth. What is the new price?
- 6 A piece of wood is 60 cm long. One third is cut off. How long are the two pieces?

#### B

- 1 Red and yellow paint is mixed to make one litre of orange paint. Four fifths of the paint is yellow. How much is red?
- 2 There are sixty pupils in Year 4. Three tenths live more than one mile from school. How many live nearer to the school?
- 3 A packet of muesli weighs 350 g. Four sevenths of the mixture is oat flakes. What is the weight of the other ingredients?
- 4 There are 72 stalls at a market. Three eighths sell food. How many do not sell food?
- 5 There are 27 children in a class. Seven ninths belong to sports clubs. How many do not belong to a sports club?
- 6 A cake weighs 300 g. Three quarters is eaten. How much is left?

#### C

- 1 A shop sells 144 bottles of milk. Four ninths are full fat milk. How many are skimmed or semi-skimmed?
- 2 Chloe has 161 books. Three sevenths of the books are on her top shelf. How many does she keep on her other shelf?
- 3 There are 240 tea bags in a packet. Nine twentieths are used. How many are left?
- 4 A holiday costs £2000. Duncan has saved five eighths of the money. How much more does he need?
- 5 A roll of wrapping paper is six metres long. Seven twelfths has been used. How much is left?
- 6 What is one fifth of one quarter of one kilogram?

## English Task -

Here are the answers from yesterday's prefix work.

Root or base word	Prefix and word
take	mistake
similar	Dissimilar
attentive	Inattentive
play	Replay
practical	Impractical
appoint	Disappoint
legal	Illegal
active	Inactive or proactive
do	Redo
resistible	Irresistible
accurate	Inaccurate
visit	Revisit
appear	Disappear
regular	Irregular
mobile	immobile

Have a go at the following word level questions:

Make these singular words plural (more than one):

hero -child - calf - fish -

scissors - book -loaf -mouse -

Add the prefix *dis-*, *pre-* or *-im* to these words to make new words:

\_\_\_\_\_agree\_\_\_\_\_set\_\_\_\_\_possible \_\_\_\_\_able\_\_\_\_\_view

\_\_\_\_\_determine \_\_\_\_\_print \_\_\_\_\_arm\_\_\_\_\_fix \_\_\_\_\_school

Add -ing to these words (rewrite the **WHOLE** word):

tell - \_\_\_\_\_ fly - \_\_\_\_\_ happen - \_\_\_\_\_ begin - \_\_\_\_\_ rob - \_\_\_\_\_

Add -ed to these words (rewrite the **WHOLE** word):

cry - \_\_\_\_\_ separate- \_\_\_\_\_ sob - \_\_\_\_\_ weigh - \_\_\_\_\_ mow-\_\_\_\_\_

Add -ful to these words (rewrite the **WHOLE** word):

care - \_\_\_\_\_ beauty- \_\_\_\_\_ thank - \_\_\_\_\_ grate - \_\_\_\_\_ tear - \_\_\_\_\_

Add -ly to these words (rewrite the **WHOLE** word):

extreme - \_\_\_\_\_ quick - \_\_\_\_\_ accidental - \_\_\_\_\_ weary - \_\_\_\_\_

Write in tion, sion or cian (rewrite the **WHOLE** word):

electri\_\_\_\_\_ confu\_\_\_\_\_ descrip \_\_\_\_\_ magi \_\_\_\_\_

opti\_\_\_\_\_ po\_\_\_\_\_ celebra\_\_\_\_\_ poses\_\_\_\_\_

Tick whether the conjunction is **subordinating** or **co-ordinating** (FANBOYS):

1. Joshua likes chocolate ice cream, but his brother, Jimmy hates it.

Coordinating



Subordinating

2. Since Kyla's recital is on Saturday night, she needs to practice her dance routine.

Coordinating

Subordinating

3. Trina slept late, yet she made it to school on time.

Coordinating

Subordinating

### Task 3 - Topic Science - Revision of forces

Read the following vocab sheet to remind yourself about **forces**. Make notes in your exercise book if you want to.

Glossary	
 <b>Acceleration:</b> how fast something is speeding up.	 <b>Effort:</b> the total work being done or force used.
 <b>Air Resistance:</b> particles of air rubbing against an object to slow it down.	 <b>Elastic Body:</b> a substance that will stretch and then return to its original shape.
 <b>Balanced Forces:</b> two opposing forces that are the same.	 <b>Elastic Limit:</b> the point at which an elastic body will not return to its original shape.
 <b>Buoyancy:</b> the ability of an object to float.	 <b>Floating:</b> when upthrust is the same as downforce (gravity), then an object will float.
 <b>Constant Speed:</b> the speed achieved when forces are balanced.	 <b>Force:</b> a push or a pull.
 <b>Contact Force:</b> a force that touches an object (e.g. hitting a tennis ball).	 <b>Friction:</b> caused when two surfaces rub together.
 <b>Deceleration:</b> how much something is slowing down.	 <b>Gravitational Force:</b> the force of a large body pulling a smaller body towards it.
 <b>Density:</b> how heavy an object is for its size. Measured in: g/cm.	 <b>Isaac Newton:</b> famous scientist who discovered gravitational force.
 <b>Drag:</b> another word for air resistance.	<b>Law of Moments:</b> the sum of the clockwise moments equals the sum of the anticlockwise moments.



Now copy the paragraph into your books and fill in the gaps with the correct scientific vocabulary - remember to use your very best handwriting. Use the words in the box to help you.

frictional

velocity

cable

magnet

weight

Isaac

meter

gravity

drag

shape

pounds

resistance

1. Sir \_\_\_\_\_ Newton was one of the first scientists to study gravity and force.
2. We measure forces using a force \_\_\_\_\_.
3. A force can cause an object to slow down, speed up, remain in place, or change \_\_\_\_\_.
4. An example of \_\_\_\_\_ force might be when you put on the brakes on your bike.
5. Air \_\_\_\_\_ is a force that slows things down that are moving through air.
6. A \_\_\_\_\_ might pull an object towards it or push it away.
7. \_\_\_\_\_ pulls everything down to the earth, and this is a force too.
8. The \_\_\_\_\_ of an object is how hard gravity pulls down on it.
9. Mass is weighed in ounces or \_\_\_\_\_.
10. Tension force is transmitted through a string, rope, \_\_\_\_\_ or wire.
11. Water and air resistance are sometimes called \_\_\_\_\_.
12. \_\_\_\_\_ is how fast an object is moving in a particular direction.

Well done everybody.

Don't forget to keep up your reading - I hope you have enjoyed your book bundles! Record what you have read in your home school reading diaries.



Stay safe - Mr Thompson