



HOME LEARNING

YEAR 6

05/05/2020

Morning Message

Good morning Year 6!

Today's space facts of the day:

The sun is so large that 1.3 million Earths could fit inside it!

It takes 8 minutes 19 seconds for the sun's light to travel to the Earth

Astronauts can't burp in space! As there is no gravity, air cannot separate from food in stomachs to be belched.

The answer to yesterday's riddle: *tomorrow*. Today's riddle: *What cannot talk, but will always respond when spoken to?*

Have a great day!

Mr Larke and Miss Yerlisu

Today's Picture



Writing

Today we will be writing an information report on space. It is up to you which part of space you choose to write about. Maybe you will choose one of the planets? Maybe you will choose asteroids, black holes or supernova? Maybe you will choose a particular expedition into space? It is up to you. You will need to research your chosen area as necessary.

Tips for success:

- include an engaging title
- include sub-headings about different topics within your subject
- include interesting facts
- write in present tense (unless specifically referring to the past)
- use technical vocabulary where necessary

Reading

Day 2: Glossary

Choose words you did not understand yesterday.

1. Write definition
2. Write types of word e.g. noun, verb etc
3. Write word in a sentence
4. If it is a verb, then write words in different tenses

Maths

Factors, Multiples and Prime Numbers

Objective
Identify common factors, common multiples and prime numbers.

In this lesson, you will develop your understanding of factors and how common factors link two or more numbers. You will use this understanding to find common factors. You will learn to recognise and identify prime numbers. You will explore how these numbers are different from other numbers.

What is a factor?

A number which divides exactly into another number is called a factor of that number.

Here is a way to find the factors of 20.

Factors of 16 are:

1, 2, 4, 8, 16

Factors of 36 are:

1, 2, 3, 4, 6, 9, 12, 18, 36

What is the biggest number that 18 and 30 can both be divided by without a remainder?

List the factors of 18.

1, 2, 3, **6**, 9, 18

List the factors of 30.

1, 2, 3, 5, **6**, 10, 15, 30

The biggest number in both lists is 6.

We say that the highest common factor of 18 and 30 is 6.

All factors of 18 and 30 are 1, 2, 3 and 6

Multiples

What is the smallest number that is a multiple of both 8 and 12?
How might we find it?

List the first 5 multiples of 8.

8, 16, 24, 32, 40

List the first 5 multiples of 12.

12, 24, 36, 48, 60

The first number in both times tables is 24.

We say that the **lowest common multiple** of 8 and 12 is 24.

Try finding the lowest common multiples of these numbers.
You may need to work them out on paper first.

2 and 3

4 and 5

8 and 10

4 and 6

2 and 3 and 5

First three common multiples of 2 and 3 are 6, 12 and 18

4 and 5 are 20, 40, and 60

What is a prime number?

If a number only has two factors (itself and 1), then we call it a **prime** number.

The prime numbers up to 100 are:

2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53,
59, 61, 67, 71, 73, 79, 83, 89 and 97

Task

1 Write the factors of the following number:

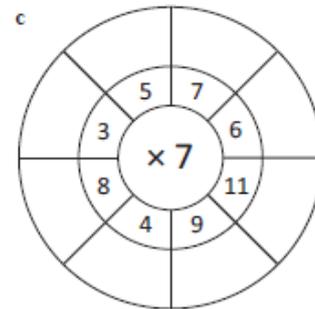
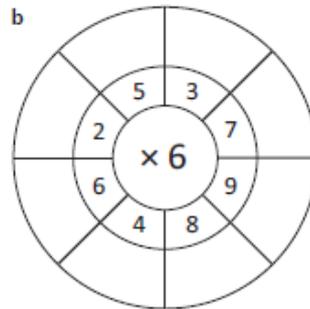
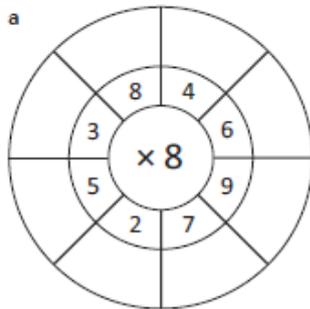
a 15

b 16

c 22

d 28

2 Time how quickly you can find the multiples:



3 Circle the prime numbers:

9 29 41

 27 13 39

33 56 17

Don't forget the number one is not regarded as a prime number. It's a special case!



REMEMBER

4 Write the factors of the following number:

a 12 and 20

b 10 and 16

c 16 and 40

d 24 and 30

5 Write the first three common multiples of these pairs of numbers:

a 3 and 4

b 2 and 7

c 4 and 5

d 3 and 6

6 What number am I?

a I am a multiple of 7.

I am also a multiple of 3.

My ones digit is half my tens digit.

I am _____

b I am a multiple of 20.

I have 3 digits.

My hundreds digit and tens digit add to make 9.

Half of me is less than 100.

I am _____

c I am an even number between 50 and 99.

I am a multiple of 9.

My tens digit is 5 more than my ones digit.

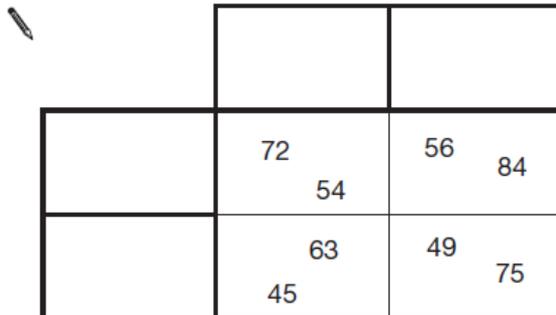
I am _____

Extension

1.

even	multiples of 9	not even	not multiples of 9
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Write each label in the correct position on the sorting diagram below.



2.

364 is a multiple of 7 but not a multiple of 3

384 is a multiple of 3 but not a multiple of 7

Find a number between 364 and 384 that is both a multiple of 7 and a multiple of 3

3.

Find the multiple of 45 that is closest to 8000

Weekly Spellings

This week we will be revising all 100 words that we have been learning these last few weeks. On Friday you will ask a family member to test you on a random 40 of the words to see how you have done.

Word list – years 5 and 6

accommodate	embarrass	persuade
accompany	environment	physical
according	equip (–ped, –ment)	prejudice
achieve	especially	privilege
aggressive	exaggerate	profession
amateur	excellent	programme
ancient	existence	pronunciation
apparent	explanation	queue
appreciate	familiar	recognise
attached	foreign	recommend
available	forty	relevant
average	frequently	restaurant
awkward	government	rhyme
bargain	guarantee	rhythm
bruise	harass	sacrifice
category	hindrance	secretary
cemetery	identity	shoulder
committee	immediate(ly)	signature
communicate	individual	sincere(ly)
community	interfere	soldier
competition	interrupt	stomach
conscience*	language	sufficient
conscious*	leisure	suggest
controversy	lightning	symbol
convenience	marvellous	system
correspond	mischievous	temperature
criticise (critic + ise)	muscle	thorough
curiosity	necessary	twelfth
definite	neighbour	variety
desperate	nuisance	vegetable
determined	occupy	vehicle
develop	occur	yacht
dictionary	opportunity	
disastrous	parliament	

Foundation Topic Work (for the week)

Our topic for computing this half-term is *binary*. This is a coding system that computers use to store and process information. Your job this week is to complete 3 tasks in this order:

1. Presentation: What is binary?
2. Converting to binary guide
3. Convert to binary quiz

All 3 have been set as 'to-dos' on Purple Mash.

Diary

Write a diary of what work and activities you did today. Remember to include your thoughts, feelings and opinions.