

Grade Six - Remote Learning WK 5/6 2021

PLEASE READ THIS FIRST! Name.....

We are back to working Remotely, and I hope it is not too long before we are back at school. We understand it is not the best way to learn, but we are hoping you give it your best effort, as there are some interesting things you can do. Do your best in regards the work you get done. There are more difficult and easier tasks. Set yourselves reasonable goals and expectations, as you would in class, Continue to read, continue your projects, and you have the Mini Project on a Planet you can work on. The Fun Maths Activities are there if you need some more work.

This week we are going to continue to look at our Solar System. You can look at the Solar System website again solarsytem.nasa.gov, but there are sheets to read in the booklet on the Planets. They are from the booklet we have been reading. We will talk about it on Monday at our ZOOM meeting so make sure you have done the reading between now and then.

In Maths, we are continuing to look at Fractions. I will talk about the work at our ZOOMs, and you may wish to ask questions then, at the end of the meeting, or email me for an extra ZOOM. I have also made some YouTube Clips. You can get links to these on the Doreen PS website in the grade 6 Remote Learning section, or simply search Youtube for the Doreen PS Channel, and go to my clips on Fractions.

I have attached the Aussie Trip project again for those who want to work on it. I will talk about it again at a ZOOM next week.

Here is an idea for your Day. Plan your day, set goals. Start the activities in the packs and aim to get up to a certain level each day. Set a goal to complete a certain amount of activities in each session. Mark it on your sheet, and when you get to the mark, move on to the next activity.

9.00 am Literacy - Reading Activity- read the texts that I have set, Word Study, Soundwaves, Newspapers, Storywriting - You are an Olympian

10.30 am Have a break, do some Physical Activities.

11.00am Numeracy - Maths - the activities are levelled, so they are marked as easier or harder. We have done this before last term and in class at school. Choose the level that you believe you can achieve but still be challenged a little. When you have done this you can challenge yourself by going up a level. Spend some time on Study Ladder.

12.30 pm Lunch

2.00pm Projects, Aussie Trip Project, Quiet Reading, Mini Project on a Planet.

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0418 366 286

Janine. Green @education.vic.gov.au

All of our ZOOM meetings are at 11.00am each day BUT I am happy to run a meeting in the afternoons a well for anyone with questions. Just send me an email or a text. I am at school every day, so I would be very happy to do it!

Mr Simondson's Grade Six Zoom meeting: Meeting ID: 8934031321 Passcode: 97173563 Mrs Green's Grade Six ZOOM Meeting Meeting ID: 299 026 8310 Passcode: 97173563

You can ring or email Mrs Green or I at any time during the day to clarify something.

Here are the Fractions YouTube clips. Type them in, or use the links in the grade6 folder on the website. If you open the copy of this week's workbook online, it will also take you there. Watch them, it will help, or you might just get a laugh. Some clips had nearly 100 views!

Fractions 1 https://youtu.be/x10Cy2n9b4Y?list=PL4PgdOoCqR eYoPTkR6Pk0Hs54v0erLgi

Fractions 2 https://youtu.be/ G2eU t6z-E?list=PL4PgdOoCqR eYoPTkR6Pk0Hs54v0erLgi

Fractions 3 https://youtu.be/YG2psh7R3R0?list=PL4PgdOoCqR eYoPTkR6Pk0Hs54v0erLgi

BRING THE BOOKLET BACK TO SCHOOL WHEN WE RETURN OR DROP IT IN THE BOX IF WE GO LONGER THAN ONE WEEK.

THE SUN





SUN FACTS

Mean distance from Earth 149.6 million km.

Distance from centre of Milky Way Galaxy about 26,000 light years.

Main components Hydrogen and helium.

Period of rotation 25.05 days.

Equatorial diameter

Relative to Earth 109 times larger.

Average surface temperature 6000°C.

Expected life More than 5 billion years.

bout 99 per cent of the mass of the solar system is contained within the sun. Even the biggest planet in the solar system, Jupiter, is only one-tenth its diameter.

But from a cosmic perspective, the sun is one of about 400 billion stars in the Milky Way revolving around the dazzling bulge at the core of the galaxy.

Distances are so immense that the sun, speeding along at 210km every second, requires 225 million years to complete one revolution of the distant centre mass of stars.

At its simplest, the sun is a ball of gas, a place of unimaginable heat and fury. Temperatures at its core probably reach 15 million degrees Celsius, the result of constant thermonuclear fusion of hydrogen to form helium. It is the same reaction as in a hydrogen bomb. The energy released deep within the sun is equivalent to that which would be released from the explosion of 100 billion one-megaton hydrogen bombs a second.

Near the polar regions are "rivers" of electrically charged gases that contribute to immense solar flares that reach far into space.

The sun is a a magnetically active star with a strong magnetic field that varies year by year and reverses direction about every 11 years.

This magnetic field produces solar activity including sunspots on the surface of the sun, solar flares and variation in solar wind that carries material through the solar system.

the solar system.
At least three
spacecraft are observing
the sun.

NASA is also doing preliminary work on plans to send a solar probe closer to the sun than ever before, flying through the sun's corona 6.7million kilometres from the sun's core and withstanding radiation and temperatures up to 1400°C.

JRY

ercury is so close to the sun that is often difficult to see from Earth, appearing low to the horizon just before sunrise or after sunset.

But 13 times a century it makes an indirect appearance passing across the face of the sun, an event called a transit. There were transits in May 2003 and November 2006, but the next is not until May 9, 2016.

Being so close also means Mercury has the shortest "year" of all the planets: it speeds around the sun four times every

Earth year.

Mercury's rotation, once every 59 days, is two-thirds of the time it takes to orbit the sun, making the period from noon one day to noon the

next 176 Earth days. Unlike the lunar terrain, Mercury's craters are shallow, but there is one vast crater, the Caloris Basin, larger than the distance between Canberra and Brisbane. It was formed when Mercury and another rocky body collided. The impact was so great that there are large rocky ridges on the opposite side of the planet that were created by shockwaves from the collision.

Galileo made the first telescopic observations of Mercury in the early 17th century, and the first spacecraft to visit Mercury was Mariner 10, which mapped about 45 per cent of the planet from 1974 to 1975.

But the current MESSENGER mission is unlocking the planet's secrets. It recently made a second pass of the planet with a third due in late September. In two years it will enter orbit around the planet and spend a year mapping Mercury's surface.

The European Space Agency is planning a joint mission with Japan, to launch in 2013, called BepiColombo to orbit Mercury with two probes - one to map the planet and one to study its magnetosphere.



SPEED KING A photo-mosaic of Mercury built by NASA computers from the thousands of pictures taken in 1974-75 by the Mariner 10 spacecraft bove).

4878km

450°C (day), -170 (night).

Average distar from sun 58 million kilometres.

Length of 88 Earth da

Period of vota 59 days.

Minimum tra 5.5 months.

Size of sun as sety planet twice as big from Earth.



VENUS FACTS

equator 12,103km.

465°C.

distance from 108 million km.

of year 225 Earth days.

243 Earth days (retrograde).

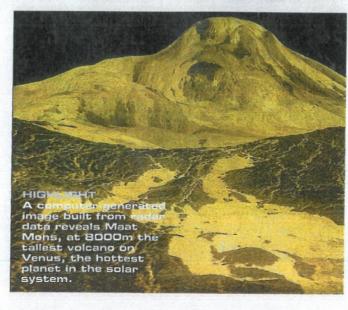
Volume of planet pared with Earth

81 per cent.

Minimum travelling time

three months.

Size of sun lenet a third lerger than as from Earth.



or many years Venus was considered a twin of Earth - similar in size, mass, composition and

distance from the sun. It has a rocky surface and is shrouded in cloud. but that is where the similarities end.

Venus has an incredibly harsh environment. If we were to step on its surface we would be instantly fried, crushed and corroded.

There are no oceans and the atmosphere is heavy with carbon dioxide that traps heat to create a scorched world with temperatures hot enough to melt lead.

From Earth, Venus appears in the twilight as the Morning Star or Evening Star. It's usually the brightest planet in the night sky because the thick clouds strongly reflect sunlight.
It's the hottest planet

in the solar system - a hostile, blistering world with constantly beiching volcanoes where there is little relief from an almost constant 465°C temperature.

The dense toxic air is mainly carbon dioxide with thick clouds of sulphuric acid droplets.

Successive probes from Earth folded under the weight of the atmosphere as they descended through the clouds. Probes that have landed on Venus have not survived more than e few hours.

A murky atmosphere extending almost 400km hides the planet's surface, but verious scientific missions have used radar and infrared mapping to image the surface and cloud structures.

The Sun shining through a sky of radiant orange illuminates the surface and more than 1000 volcanoes larger than 20km in diameter in an eerie orange-red light.

As with Mercury, Venus periodically passes across the face of the sun with more than a century separating each pair of transits.

There was a transit on June 8, 2004, with another to occur on June 6, 2012.



MARS

n size and appearance, the "Red Planet" is a cross between Earth and the moon.

It has an atmosphere, clouds and polar caps. ts day is also remarkably similar in length to ours.

Apart from Earth, it's also the planet we know the most about.

Every day we learn more. Many missions are exploring Mars. The twin NASA rovers Spirit and Dpportunity have spent more than five years on the planet's surface sending back images and measurements. Mars Ddyssey, Mars Express and Mars Reconnaissance Drbiter are observing from overhead in orbit. Phoenix recently spent five months on the surface, confirming the presence of ce under the surface and other substances in the soil, and observing snow n the atmosphere.

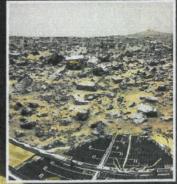
Despite our push to explore Mars and the cossibilities of living there, conditions are particularly unfriendly towards life. Its soil has no carbon, the building block of life. Its thin atmosphere, equivalent on its surface to being 35km above Earth, is devoid of ozone, eaving the planet exposed to the full intensity of the sun's ultraviolet rays.

It's chillingly cold, with temperatures dropping as ow as -140°C. Mars, as with Earth, has seasons, but they last twice as ong. Temperatures on a spring morning would be about -85°C, under a putterscotch-coloured sky etched with icy clouds

Violent wind storms earry vast dust clouds across the planet at more than 200km/h.

These are all factors
that scientists and
engineers must overcome
before we send human
explorers to the planet.





MANUE POVER

Man's most remarkable exploration of Mara was from July to September 1997 when the Pethfinder probe bounced on to the surface. Its Sejourner rover beamed back amazing pictures.

MARS FACTS

Diameter at equator

Average temperature -55°C.

Average distance from sun 228 million km.

Length of year 687 Earth days.

Period of rotation 24 hours 37 minutes.

Number of moons two.

Volume of planet compared with Earth one-seventh.

Minimum travelling time from Earth four to six months.

uplter is the biggest planet in the solar system and has so many satellites and rings that it constitutes a miniature system on its own.

Astronomers have discovered 62 satellites or moons orbiting the giant planet - including four planet-sized moons - with 49 of those officially named.

Jupiter is so large it could accommodate all the other planets in our solar system within it and still have room.

Broad orange and white bands encircle Jupiter. These bands revolve at different speeds and in opposite directions. With winds hurtling around the planet at more than 600km/h.

One of the most recognisable features of Jupiter is its Great Red Spot, a storm south of the equator that is three times the size of Earth.

Jupiter has no real surface. Its atmosphere, 1000km deep, turns progressively more liquid the desper one descends into it, but with an everincreasing pressure far beyond what humans could withstand.

A recent fly-past by the Cassini-Huygens spacecraft, on its way to Saturn, revealed a vast, invisible whirling bubble of charged particles or magnetosphere surrounding Jupiter - a finding that will help understand Earth's own magnetosphere that shields us from solar radiation.

JUPITER FACTS

Diameter at equator 143,000km.

Average temperature -150°C,

Average distance from sun 778 million km.

Length of year 11.9 Earth years.

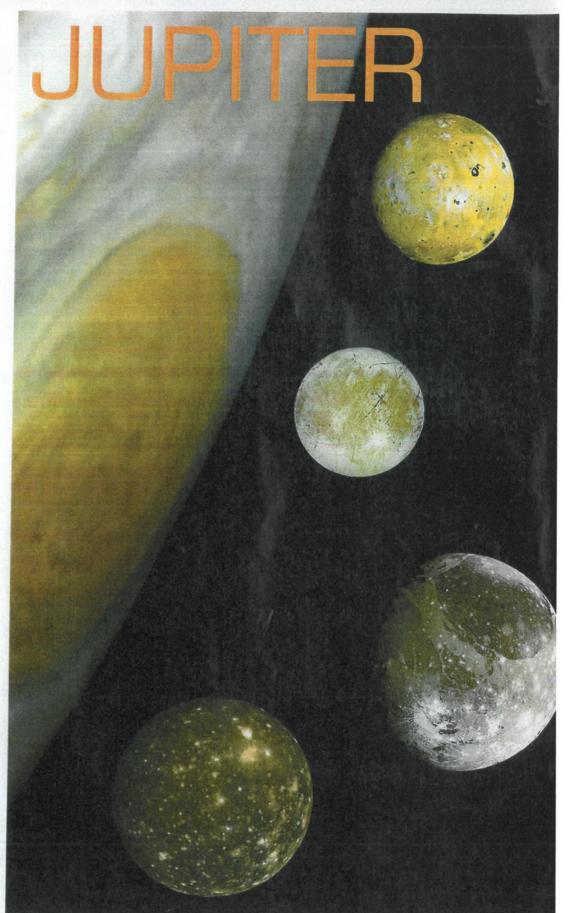
Period of rotation 9 hours 55 minutes.

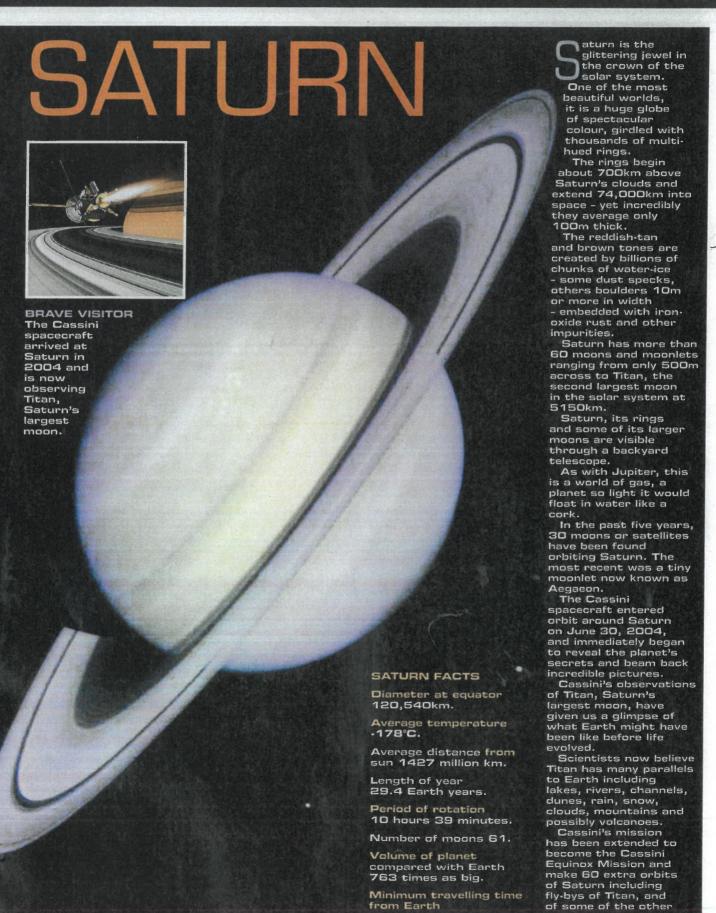
Number of moons 62.

Volume of planet compared with Earth 1316 times as big.

Minimum travelling time

about 18 months.





about three years.

larger moons.

rom Uranus, the Sun appears little more than a bright star in the distant sky.

Once considered one of the more boring planets to look at, Uranus has been found to be a dynamic world with bright clouds and a series of 11 rings.
Uranus appears to be

Uranus appears to be a blue-green sphere that is essentially featureless apart from a small number of faint white wispy clouds.

The blue-green radiance, called electroglow, comes from the methane gas in the atmosphere. Sunlight is reflected from Uranus's cloud tope, which lie beneath a layer of methane gas. As the reflected sunlight passes through it the methane absorbs the red portion of the light, allowing the blue portion to pass through.

Uranus was the first planet found with the aid of a telescope when it was discovered by astronomer William Herschel in 1781.

Uranus is a gas giant, along with Jupiter, Saturn and Neptune. At least 80 per cent of its mass is contained in an extended liquid core of "icy" materials such as water, methane and ammonia.

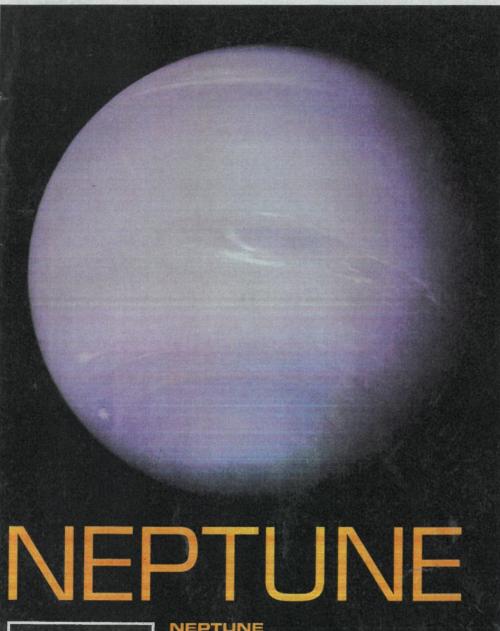
The deeper the descent into its atmosphere, the more liquid the gas becomes - eventually giving way to hot rocks.

The surface is frigid, with an atmosphers whipped up by violent 650km/h winds.

Because it is tipped on its side as it orbits the sun, Uranus has the strangest seasons in the solar system - lasting more than 20 years. Its south pole points to the sun for 21 years, then the planet moves side on before presenting its north pole.

Astronomers
continue to discover
new moons in orbit
around Uranus. The
moons have romantic
names, thanks to a
decision to call the
largest after characters
from plays by
Shakespeare and poems
by Alexander Pope names including
Titania, Portia, Juliet,
Dasdemona, Miranda
and Puck.





NEPTUNE FACTS

FROZEN SOLID Triton, Neptune's largest moon.

Diameter at equator 49,530km.

Average temperature -214°C.

Average distance from sun 4498 million km.

Length of year 165 Earth years.

Period of rotation 16 hours 7 minutes.

Number of moons 13.

Volume of planet compared with Earth 57 times as big.

Minimum travelling time from Earth about 12 years.

hanks to Pluto being kicked off the planetary map, Neptune is now the most distant planet in the solar system.

This blue planet has a name to sult its composition.

Neptune seems largely liquid - possibly a deep ocean of liquid hydrogen.

As with Uranus, its blue appearance is a result of methane in the atmosphere. But Neptune is a brighter blue, which scientists believe is caused by an unknown component in the atmosphere.

Its atmosphere which consists of hydrogen, helium and methane, is so dense it may constantly be transforming the methane into flecks of diamond that rain towards its core.

The planet's magnetic field is about 27 times more powerful than that of Earth.

It's also probably the windlest place in the solar system with winds roaring at close to 2400km/h.

In 1989 the Voyager 2 probe observed a storm in Neptune's southern hemisphere that was large enough to contain the entire planet Earth.

Neptune was discovered 163 years ago, after a French mathematician proposed the position and mass of an unknown planet that could cause the changes noticed in Uranus's orbit. A German astronomer using the proposed co-ordinates found Neptune on his first night of searching in 1846.

One of its moons, Proteus, orbits Neptune so rapidly it completes its circuit every 26 hours. Another moon, Triton, is the coldest place in the solar system at a deathly -235°C.

Amazingly, though Triton is frozen solid, it has active volcanic geysers - plumes of nitrogen gas that rise 8km into the atmosphere before being caught by high-altitude winds.

Not only does this moon travel in the opposite direction to Neptune's revolution, it's also moving imperceptibly towards its parent. One day they will surely collide.

Word Study - Term 3 Week 4 The Planets of our Solar System

Make sure you read the information on

each planet. You might like to visit the NASA website again if you are starting to think of a Planet you would like to choose for a mini Project:

1. Write out the words Alphabetically	2. LCWC	3. Write out the Base word if it has one.
_		
9		

celestial body * atmospheric conditions Galileo Galilei **Nicolaus Copernicus Claudius Ptolemy** Equatorial diameter * Hemisphere * ambitious * revolution * elliptical orbit * sulphuric acid carbon dioxide perspective featureless fascination

4. Word Domino	5. Meanings *

6. Tell me what each planet in our Solar System was named after, who discovered it, and when. (count Pluto)
1
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6. When did people realise the Earth was not Flat, and who discovered this. Was it a popular theory?
7. Who were Galileo Galilei, Nicolaus Copernicus and Claudius Ptolemy. Tell me who they were, when they lived, and
what they were most famous for.
Galileo Galilei
Nicolaus Conornicus
Nicolaus Copernicus
Claudius Ptolemy
Claudius Ftolemy
8. The only Celestial Body people have visited is our moon. Tell me 10 facts about the Apollo Missions, and why do
you think it was important we landed on the moon. 1
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9. Is there anywhere else Humans could live in our Solar System? What are the things we need to survive?
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tattooed	poet de	speradoes	echoed t	oenail mo	moeuvre
The Great	at Barries	r Reef is	the world	l's largest o	oral
reef. It	is more t	han 2,000	okm long	and is fo	rever
growing	. It featu	res an a	wesome va	riety of se	a
creatures	s and mi	ulti-colous	red corals.	-	

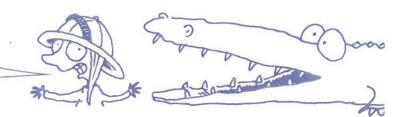
SELF ASSESSMENT

Rate your horizontal joins to e.

Rate your slope.

☆☆☆

Remember to retrace the top of the safter a horizontal join, and to use the cut-offs after a diagonal join.



Kakadu National Park is a vast wilderness. Much of
the land belongs to the Gagudju people, who have
lived there for over 40,000 years. Kakadu's landscape
features cliffs, ravines and waterfalls, as well as
grasslands, forests, swamps and rivers. If you visit,
beware of saltwater crocodiles — they'll attack
anything that comes too close!

DOB (SELF ASSESSMENT)

Rate your joins to s.

Rate your fluency.





Report

Note: Before you begin to read the text, answer Question 1 on the opposite page.



We live in a world filled with microbes-microscopic organisms such as viruses, bacteria and fungi. A spoonful of dirt contains billions of them. From your head to your toes, inside and out, you are home to trillions more of them. Most are harmless, and many are good-they help us digest our food, for example. However, some can make us sick. We call these bad ones germs.

Lurking Germs

Germs enter our bodies through our noses, mouths or other openings. They may also enter through a cut in our skin. A single sneeze can propel millions of germs into the air. Hands that cover a cough deposit germs on desks, doorknobs and computer keyboards.

Diseases spread in many ways. We can become ill from germs in food that hasn't been handled or cooked properly. Water can be contaminated with germs—such as protozoa—especially in poor countries without sanitation facilities.

If germs surround us, why aren't we always sick? Most of the time, our bodies fight off germs. At times when you haven't been getting enough sleep or eating right, your resistance—your ability to fight off illness—decreases. Then it becomes easier for germs to mount a sneak attack.



Salmonella is a bacterium that can give you food poisoning or deadly typhoid fever.



Trichophyton rubrum, or ringworm, is a fungus that lives on–and eats–your skin.

Germs Target Children

Children, especially young children, get sick more often than adults. One reason is that they don't keep their hands as clean as adults do. Also, their bodies have not yet mastered the art of recognising and fending off germs. The human immune system has the job of fighting germs. As we grow older, this system improves in its ability to quickly recognise and fight infection. This helps us to build immunity against many of the germs that made us sick as children.



This protozoan, Entamoeba histolytica, is found in foul water and the human gut. It causes stomach-aches and diarrhoea.

Focus: Predicting - Making Predictions About Texts

Always look at the headings, subheadings and pictures before you read a text. Draw on you knowledge about the topic and experience of texts on the same topic to predict what the text will be about.

1	Scan the text's headings, subheadings and pictures. What do you think this text will be about? Why?							
	<u>literal Questions</u>							
2	Name three types of microbes mentioned in the first paragraph.							
3	How do germs enter our bodies?							
4	What can a single sneeze do?							
5	List two ways diseases can be spread.							
a								
b								
6	What decreases our resistance to germs?							
7	What is the job of the human immune system?							
Fo	Monitoring - Re-reading and Reading On							
	ou come to a new word that you do not know, re-read the sentence it is in. If that doesn't work, keep reading. ormation that comes after the word may give you a clue as to what it means.							
8	Write what you think the following words mean. Use the text to help you.							
a	microscopic							
b	propel							
С	contaminated							
d	sanitation							
9	Use the word contaminated in a sentence of your own.							
1	nference Questions							
10	Which word in the last paragraph could be replaced with the words fending off ?							
11	Why do some countries not have sanitation facilities?							
12	Do all microbes make us sick? Explain.							

Comparing Fractions

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response sheet. Write true or false to compare the fractions. Write all answers on your

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Separate your answers with a comma. Order the fractions from smallest to largest.

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စစ	8 7	∞ -

the problems.



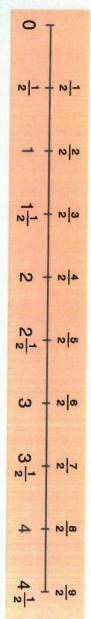
24 Adam ate 4 of the pizza above. How many eighths of the pizza did he eat?

25 Kelly ate $\frac{1}{2}$ of the pizza for dinner and $\frac{1}{8}$ of the pizza for breakfast. How many eighths of the pizza did she eat in total?

and Mixed Numerals (mproper Fractions

is greater than the denominator, e.g. $\frac{7}{4}$, $\frac{7}{3}$, $\frac{5}{4}$, $\frac{9}{2}$ Improper fractions are fractions where the numerator

response sheet. Study the number lines below to answer the questions. Write all answers on your



Write an equivalent mixed numeral for:

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N

NO

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NO

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Write an equivalent improper fraction for:

$$4 \quad 4\frac{1}{2} \quad 5 \quad 2\frac{1}{2} \quad 6 \quad 1\frac{1}{2}$$

Write an equivalent mixed numeral for:

7

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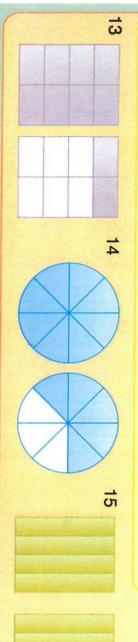
4 =

9

4 5

$$10 \ 1\frac{3}{4} \quad 11 \ 2\frac{1}{4} \quad 12 \ 3\frac{2}{4}$$

Separate your answers with a comma Write a mixed numeral and an improper fraction to describe each model.



and a fraction, e.g. $1\frac{1}{3}$, $2\frac{1}{4}$, $3\frac{1}{2}$ Mixed numerals are made up of a whole number

denominator. by dividing the numerator by the traction to a mixed numeral simply You can convert an improper

$$\frac{7}{2}$$
 means $7 \div 2 = 3\frac{1}{2}$

numeral. Convert each improper fraction to a mixed

4 4

N |=

18

4 0

Write an equivalent improper fraction for:

24

51 | ±

and Mixed Numerals Improper Fractions

is greater than the denominator, e.g. $\frac{7}{4}$, $\frac{7}{3}$, $\frac{5}{4}$, $\frac{9}{2}$ Improper fractions are fractions where the numerator

and a fraction, e.g. $1\frac{1}{3}$, $2\frac{1}{4}$, $3\frac{1}{2}$. Mixed numerals are made up of a whole number

You can convert an improper

9

response sheet. Study the number lines below to answer the questions. Write all answers on your

numeral or a whole number. Convert each improper fraction to a mixed

$$\frac{7}{2}$$
 means $7 \div 2 = 3\frac{1}{2}$

Onvert each improper fraction

the numerator by the denominator. whole number simply by dividing traction to a mixed numeral or

Convert each mixed numeral to an improper fraction. The number line may assist you.

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so that each is true to choose > |, | < | or | = | to insert into each statement below The number line above shows quarters. Use the number line

$$10 \quad \frac{4}{4} \qquad 1 \qquad 13$$

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8 3

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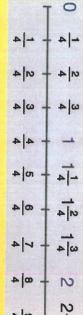
4 0

24

4 6

П

$$14 \quad 2\frac{3}{4} \qquad \frac{12}{4}$$



25 What mixed numeral is exactly halfway between 1 and 2 2?

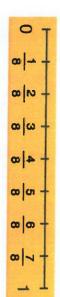
12



Adding and Subtracting Fractions

When you add or subtract like fractions the denominator remains the same, e.g. 5 + 1 = 4

on your response sheet Add the number sentences. The number lines may help you. Write all answers



II

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12/2

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12

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70

12

12 8

12/0

12 0

72 =

$$6 \quad \frac{9}{12} + \frac{2}{12} = \frac{10}{12}$$

$$7 \quad \frac{10}{12} - \frac{7}{12} = \boxed{ }$$

10

70

4 5

11

9

20

72 5

11

18

00

12

12 4

11

For example You can subtract fractions from whole numbers. | |4||3 |1| |4||1

×

1 whole

Solve the subtractions. The diagrams may help.

12

13

15

14

4 00

11

Solve the problems

- 16 Karen had a whole chocolate bar of then $\frac{5}{12}$, how many pieces would be left? 12 pieces. If she ate $\frac{2}{12}$ of the bar,
- 17 Imran ate $\frac{5}{8}$ of a pizza. If he left what fraction of the pizza did he leave? the rest in the refrigerator,
- Zoe had a set of 12 coloured felt-tip pens of the set of pens did she lose? but she lost 4 of them. What fraction
- 19 Thomas had a small set of 8 golf clubs. If his brother borrowed the set has he got left? three clubs, what fraction of
- 20 Fiona had 12 metres of curtain material and used 8 of it. How many metres are left?

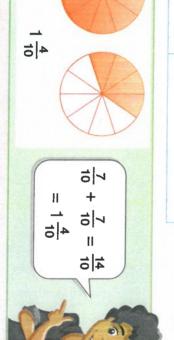


Adding Fractions with Mixed Numeral Answers

numeral. Write all answers on your response sheet. The first one is started for you. Write the following modelled fractions as an improper fraction then as a mixed

6	51	4	ω	N	_	
0		000000000000000000000000000000000000000		♦		
					Ν	Improper fractions
						Mixed numerals





Add the fraction. Write all answers as an improper fraction then as a mixed numeral.

10

10

11

$$10 \frac{3}{8} + \frac{7}{8} =$$

$$\frac{4}{5} + \frac{4}{5} =$$

9

5/2

+ 00

Н

=

œ | o

ω σ

11

14

00

11

$$15 \frac{9}{12} + \frac{5}{12}$$

IJ

 $\frac{7}{5}$ is the same as

5 2



numeral or a whole number to answer the problems Convert each improper fraction to a mixed

- 16 Jack ate 6 of a fruit pie on Monday and fruit pie did he eat over the two days? ³/₆ of a fruit pie on Tuesday. How much
- 17 Freda ate 2 of a fruit pie and Sally ate 6. How many pies did they eat in total?
- 8 ate 4 of a fruit pie. How much pie did Sam ate 5 of a fruit pie and Mohammed they eat combined?
- 19 eat in total? and Mia ate 6. How much pie did they Tim ate $\frac{5}{6}$ of a fruit pie, Kelly ate $\frac{4}{6}$
- 20 Hank was visiting from America. He he eat in total? he ate $\frac{3}{6}$ of a fruit pie. How much pie did loved fruit pies so on 3 consecutive days

	1 whole																		
	$\frac{1}{2}$								1/2										
				1/4					2/4					3 4					
		1/8		2/8			3 8		4/8			5 8		<u>6</u> 8			7 8		
			<u>1</u> 5				<u>2</u> 5				<u>3</u> 5				<u>4</u> 5				
	1/10		<u>2</u> 10		<u>3</u>		4 10		<u>5</u> 10		<u>6</u> 10		7/10		8 10		9 10		
1 20	<u>2</u> 20	3 20	<u>4</u> 20	<u>5</u> 20	<u>6</u> 20	7 20	<u>8</u> 20	<u>9</u> 20	10 20	11 20	<u>12</u> 20	13 20	<u>14</u> 20	15 20	16 20	17 20	18 20	1 <u>9</u> 20	

Use the equivalent fraction chart to add or subtract the like fractions.

a
$$\frac{1}{4} + \frac{1}{8} = \frac{3}{8}$$

$$h = \frac{6}{10} + \frac{1}{5} = -$$

h
$$\frac{6}{10} + \frac{1}{5} = -$$
 o $\frac{5}{10} - \frac{3}{20} = -$

b
$$\frac{1}{2} + \frac{1}{8} = -$$

b
$$\frac{1}{2} + \frac{1}{8} = -$$
 i $\frac{7}{10} + \frac{1}{5} = -$

$$p \frac{7}{10} - \frac{4}{20} = -$$

$$\frac{2}{4} + \frac{1}{4} = \frac{3}{4}$$

$$\frac{1}{4} + \frac{1}{2} = --$$

$$\frac{1}{2} + \frac{3}{10} = -$$

$$q = \frac{9}{10} - \frac{9}{20} = --$$

d
$$\frac{1}{4} + \frac{3}{8} = -$$

$$\frac{1}{2} - \frac{1}{2} = -$$

$$k \frac{1}{2} - \frac{1}{8} = r \frac{4}{5} - \frac{3}{10} = -$$

e
$$\frac{3}{4} + \frac{1}{8} = -$$

$$\frac{1}{2} - \frac{1}{10} = -$$

$$s \frac{3}{5} - \frac{7}{20} = -$$

$$f = \frac{3}{8} + \frac{1}{2} = --$$

$$m = \frac{3}{4} - \frac{1}{2} = -$$

$$\frac{1}{5} - \frac{1}{20} = -$$

$$g = \frac{5}{8} + \frac{1}{4} = --$$

$$n \frac{3}{10} - \frac{1}{20} = -$$

$$u = \frac{3}{5} - \frac{3}{20} = -$$



- Solve the problems.
- Tom ate $\frac{3}{5}$ of the pizza and Ava ate $\frac{3}{10}$ of it. How much did they eat altogether?
- Bella used $\frac{1}{5}$ of the pages and Grace used $\frac{3}{10}$. How much did they use altogether?
- Jack ate $\frac{1}{4}$ of the pie and Emma ate $\frac{3}{12}$ of it. How much pie did they eat altogether?

SUPER QUESTION

Use the equivalent fraction grid and the information you have learnt about improper fractions on page 15 to complete the following questions. The first one

a
$$\frac{1}{2} + \frac{3}{4} =$$
 d $= \frac{2}{4} + \frac{3}{4} = \frac{5}{4} = 1\frac{1}{4}$

$$= \frac{2}{4} + \frac{3}{4} = \frac{5}{4} = 1\frac{1}{4}$$

$$\begin{vmatrix} \frac{1}{4} + \frac{7}{8} = \\ = \frac{2}{8} + \frac{7}{8} = \\ = \end{vmatrix} =$$

c
$$\frac{1}{2} + \frac{5}{8} =$$
 = + = =

$$\frac{4}{5} + \frac{4}{10} = \\ = + = =$$

$$\frac{3}{5} + \frac{7}{5} =$$

3 +	$\frac{7}{10} =$		
=	+	=	=
4/5 +	9 =		

$$\frac{4}{5} + \frac{7}{20} = \\ = + = =$$

$$\frac{3}{5} + \frac{11}{20} = \\ = + = =$$

$$\frac{1}{2} + \frac{7}{10} = \\ = + = =$$

$\frac{3}{4}$ –	$\frac{3}{8} =$	
=	-	=
<u>5</u> _	$\frac{5}{12} =$	
=	-	=
<u>2</u> –	$\frac{7}{12} =$	
=	-	=



Maths Project - Term 3 2021

Your task is to plan a trip around Australia for your family. You need to visit as many places as you can, but you can't spend more than \$100,000, even if you need to purchase transport and caravans. You also must be away for at least one month, but not more than 3 months. You are expected to produce a power point with:



The vehicle(s) you will travel in, and the purchase costs. You may already own these vehicles, so there is no need to purchase them.(pictures)

A map with towns and roads you will visit and travel on. (map)

A grid with the distances you will travel, and the costs for fuel associated with your vehicle. eg

Start Place	Finish Place	Distance	Stay time	Accom. & Cost	What did you do there
Doreen	Cowes	164km	2 days	Big 4, Cowes, \$160	Swim, Surf, Penguins (\$260), Bike ride
Cowes	Tidal River	248km	4 days	Camping Gnd. \$200	Hiked, Tour (\$300), swam, surfed

The places you will stay, and for how long, with the cost of the stay. (pictures)

The tourist attractions you will visit, and how much it will cost for your family. (pictures) Cost for fuel on average will be C\$1.80 per litre for diesel, \$2.00 for petrol and 75c for LPG. We will work out your fuel costs in the grade.





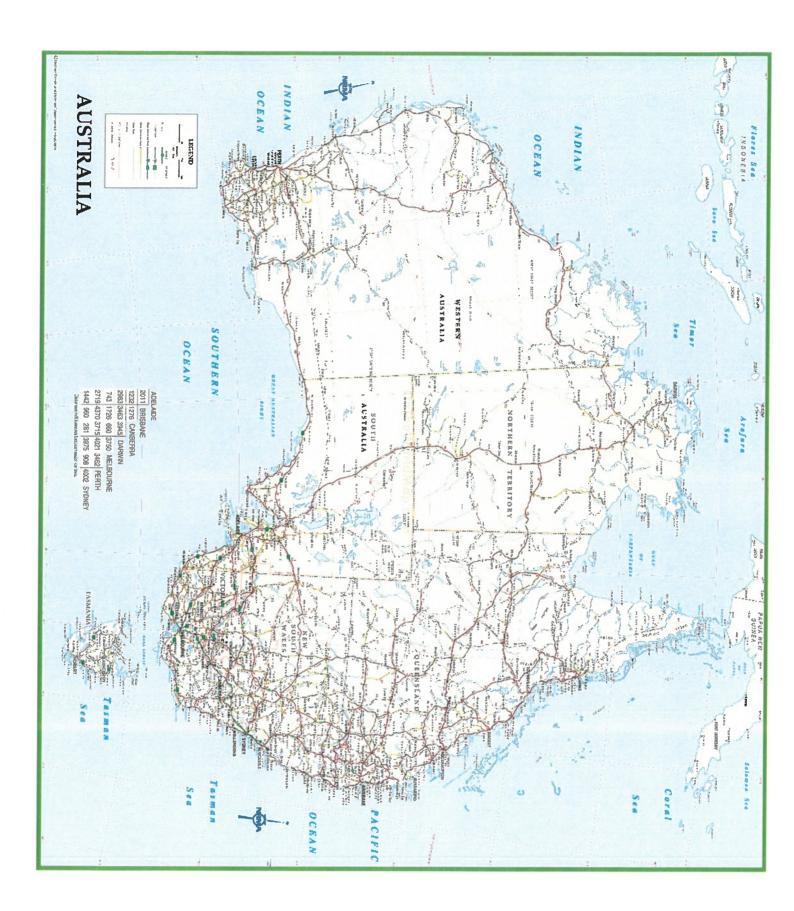


In real life you would have other things to consider to go on this trip. What would they be? Tips: 1. Use a map to plan your route.

- 2. Use a grid to write down your distances, costs, accommodation
- 3. This must be presented in a Power Point. There are several ways to set this out, but a grid with distances and places visited is the best way to plan the trip. After doing the grid, pages of the PPT could show sections of the trip, or each day, or the places visited, or the places you stayed.



- 4. Make an ESTIMATION for food. What does your family spend a week? Add a "special" meal a week at a restaurant that is famous in the area. Work it out over the whole trip.
 - 5. ASK if you are finding something difficult, I have some previous year's examples to look at.



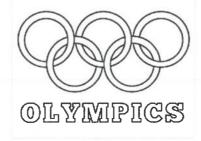
Grade 6 - Mrs Green

Remote Learning 6.8.21 to 13.8.21 WEEK 5 Term 3

The best way to contact me is by email janine.green@education.vic.gov.au.

Scheduled Zoom Meeting with Mrs Green Wednesday 11.00am

	Activities & Instructions	Comments: Students, Parents &/or Teachers	Completed
1	Sound Waves 1. Complete Unit 17- Worksheet		
2	Language – 1. Olympics- Grammar Cloze Activity - Worksheet		
3	Poetry – 1. Octopoem – Following the formula to write an 8 lined poem about a pet or a person or an animal.		
4	Maths Mate- Complete the level you have been doing in class. You do not need to do both 1- Easier Maths Mate 6 - T1 - Sheet 4 2- Harder Maths Mate 7 - T1- Sheet 4		
5	Maths – Measurement – Angles 1- AMBER 3- 2D Shapes and Transformation 2- Revising polygons		
6	Studyladder – Set tasks- Website www.studyladder.com.au If you have forgotten your log on password, please email me.		
7	<u>Times Tables</u> 1- Complete Times Tables worksheet		



i_e y igh i ie ice-cream fly night spider pie

Grapheme Chart

List Words

minor insight diary iron style trial polite inspire entire entitle retirement excitedly replying surprisingly privately supplier multiply designer society licence license organisation acclimatise microscope indescribable

	in the Lis	ie grapnemes thai t Words.	represent Y Ley is	<u>ph i le</u>	grapheme	word
2	Go to the	List Words for Ur	it 17. Count the cou	unde and		V
****	identify a	Il the graphemes	in each List Ward.			
3			can represent ©			
4	Cross out not hear (all words containi	ng the letter i wher	e you do		
	The brillio	ant designer sigr	nalled spoke polite	ely to		
	the childr	en students as t alv interestina inc	hey guiltily excited	lly made about the mischief lo		. 1
	computer	`games. He exp	plained described	how he uses a spec	ial microscop	e for the
	prelimina	ry trials to weigh	iron out the man	y friendly problems	that complice	ite A
				ew soldier type of fo	atigued game	Enors.
		id the designer	**			1
			speaking?			
5			** *****************	t problems?		
1			nt (vie y igh i ie) to fi	nish these List Words.		
1	dary	inspre	socety	inst	acclma	ats
1	stle	cence	multipl	desgner	organ	
	tr_al	Lcense	repling	exctedly	indescr	_bable
		issing digraphs in	these words.			
	enti	licen	replyi	retiment	alim	nats
	on		suli	microscp	gar	nisaon
	00Lt		privaly	desi	spri	,
7 V	Write words	built from the ver	rbs ending with the	suffix fy in the bracket	ts to finish the	sentences.
,	before a	dding es and ed	an mean to make, t	pecame of cause Reme	ember to chang	e y to i
		glass allo	ows us to observe	enlarged images of	f tiny insects.	(magnify)
ur, red, d	on a large	sign, often		danger.	•	(signify)
cking of	ten		a crying	ı baby.		(pacify)
d watch	ed the		firew	orks display in ama:	zement.	(electrify)
				used to treat sun s		

8	Write words from the brackets to fi ★ Licence: (noun) official permissi License: (verb) to give official permissi		100
	Permits from a government auth	nority sometimes people to shoot excessive	5
	numbers of wildlife that are endo	angering the lives of people and other animals. (license, licence	a)
	Very few people have a	to drive huge mining machinery. (license, licence	-1
	Farmers often keep a	on the progress of each of their cows. (dairy, diary	ii A
	These birds are	different from the last flock which was very	ιì
	l when I said I h	nad not on the bed wearing my dirty shoes. (lain, lied	n
	The weary boy was so	that even though he very hard, he	•
	up the horse too loosely so that t	he horse could pull itself free and run away. (tied, tired, tried))
	The engineer gave us some in	into the difficulties of the building (sight, site))
9	Write words from the list under the r	oots and meanings from which they have developed.	
	inspire describ	pe excitedly multiply designer microscope	
	cit (Latin) multus (Latin) stir up many	micro (Greek) scrib (Latin) signum (Latin) spiro (Latin) small write a sign breathe	
10	Write List Words that have the same	or similar meaning as the other words in each group.	
:	smaller, lesser, insignificant,	cut, design, fashion, practice, try, test,	
1	total, complete, whole,	not able to be described, beyond description,	
9	secretly, separately, confidentially,	civilisation, culture, humanity,	
(adjust, accustom, adapt,	allow, authorise, enable,	
-	allenge Colour the words, like a spiral. Numb	all ending in ise or yse , working around the outside and into the centre per the meanings to match the words in the order that you find them. ing suffixes ise and yse can mean to make, become or cause.	
Mear	nings	Start here!	
	ake privatemake public	individualisestyli	
	rm a colonybreath test	etranquilliseipris	
	ake popularsay sorry	sarmoniseorganisve	
	ut in hospitalmake tranquil	ihtisenbreathaleas	
	ake harmonious	9 paespecialiseyptc	
	come a specialist	o e m s i l a t i p s o h e s o i r	
	range individually		
	ake in a certain style	paresilarenegesici	
	re order to something	Read hidden letters left to right as in a normal Word Search	
	ake a critical comment		
	rke a general statement		
_be	come used to a climate	Hidden Word ina!	

NAME:	DATE:	

OLYMPICS

Grammar-in-Context		
Complete the article by cir.	rcling the correct words.	
ago in 776 BC. Every four y empire) (1) to a place of until 393 AD. They lasted fit allowed to compete in the ga	st Olympic Games in Greece rears, people from Greek city called Olympia to (2) the rom (3) one and five dames. Many of the sports ever ames where athletes run, jun	-states (and later the Roman e games, which continued ays, and only men were ents were similar to those
committee (the IOC) in 1896 in the city of Athens, in 1896 three events. (6) som years, the IOC decided to hat they were held (8) Part the first time. The first Winter competed in events such as (9) in the Summer Oly	s began with the creation of the first and Greece (5) the first and Greece (5) the first are people wanted to have the first are (7) in different court in and women were allowed by a compic Games were held skating and ice hockey. Over the first are garden of the first are the first	rst country to hold the games, 1 athletes competed in forty-games in Athens every four ntries and cities. In 1900, to compete in the games for in 1924 and athletes er 200 countries now f events has increased to
1916, 1940 and 1944 becau win. In addition, the games	nowever. There were (11) se of war. Also, some athlete (12) very expensive. To billion. Nevertheless, the over the world.	es use drugs to help them The 2014 Winter Games in
	5. (A) were (B) was (C) is (D) are	9. (A) compete (B) competing (C) competed (D) competes
2. (A) watches (B) watched (C) watching (D) watch	6. (A) However (B) Although (C) Therefore (D) Because	10. (A) lasts (B) lasted (C) last (D) were lasting
3. (A) between (B) after (C) to (D) towards	7. (A) they (B) their (C) them (D) there	11. (A) not (B) no (C) don't (D) didn't
4. (A) today's (B) today (C) todays (D) todays'	8. (A) to (B) for (C) on (D) in	12. (A) is (B) are (C) can (D) does

OCTO-POEM

An Octo Poem just involves using interesting language to fill the 8 lines. You have to use the topic prompts in brackets next to each line. TOPIC - Describe a pet or a person or an animal.

<u>Line 1-</u> (A colour)
<u>Line 2-</u> (A season)
<u>Line 3-</u> (A place)
Line 4- (A type of weather)
Line 5- (A type of clothing)
Line 6- (A piece of furniture)
<u>Line 7-</u> (A TV show)
<u>Line 8-</u> (A type of food)

example-

Wild, grey outdoor cat

Hungry for summer treats

Draped and lazy across my front step

When steamy summer thunderstorms rumble through
She pants and huddles inside her war torn fur coat

Our old, scruffy doormat is her bed

Feline survivor

Thriving at the neighbourhood buffet

	For skil	I builder help go to www.matt	hsmate.net	HI	AR	DE	R				
	1.	[+ Whole Numbers to	10]		1			т	1		
		4 2	6	9	10	3	7	1	8	5	MATHS MATE
		+6									
	2.	[- Whole Numbers to 1	10]								
	-	13 13		14	7	9	11	8	10	12	
		- 5									Term 1 - Sheet 4
	0										Name:
	3.	[× Whole Numbers to 1		4	5	7	6	9	3	10	
			1	7	2	/	U	7	5	10	Due Date:/
		×2									Parent's Signature:
	4.	[÷ Whole Numbers to 1		0.0	0.4	1.0				20.	OUOTE OF THE WEEK
		15 27	7 12	30	24	18	9	21	36	33	Be yourself. Who else is better qualified? Frank Giblin
		+3									
	5.	[Large Number +,-]	10.	[Fraction		*			16		er of Operations) *
		8 1 9 7		$7 \times \frac{2}{5}$	=					24 -	÷ 3 × 4 =
		- 1 0 3 2	7		,						
			11.	[Perce			4 ***		17		oring Number]
					e as a ut of 1	_	ntage): 	7		e or false?
	6.	[Large Number x,÷]		25 0	ut OI]		\
		57 000 =	12	[Decim	nals / Fra	actions /	Percen	itages]	18	,	ples / Factors / Primes] * the common multiples
		100	_,	Wha	t perc	entag	e of tl				and 4 up to 20.
				shap	e is sh	naded'	?				
		\		*	7						
	7.	[Decimal +,-]	10								
		4.2 6		[Intege Which	rsj ch inse	ect.ca	n end	ure th	1 9 ie		ber Patterns]
		+ 1.3 8		lowe	st tem	perat	ure?				nplete the pattern:
					-24°C -51°C				10	2, 10	, 18, 26, 34,,
				C) -	-10°C	stin	k bug				
				D) -	-184°(C red beet		ark		[Expr	essions] plify
	8.	[Decimal x,÷] 0.3				Deel	.10				r+r+r+r
		× 6	14.	[Rates				00			
				Simp	lify tl	ne rati	10 5	: 90	21]		titution] * = 9, find the
								3 1			the of $p+p-5$
	0	0 <u>2</u> 8	15 .		s / Squa						
	9.	[Fraction +,-]	1	Write	e the p er:	orodu	ct as a	1	22	[Equa	ations]
		$\frac{3}{8} + \frac{4}{8} =$			×3×	(3×3	3 =				+ 13 = 23
1	page				2 3	4 5	6 7	8 9	10 11	12 13	14 15 16 17 18 19 20 21 22

EASIER

MATHS MATE

Term 1 - Sheet 4



Due Date:/

Parent's Signature:

1. [+ W	/hole Nu	mbers to	10]			1211 12313				
	7	5	6	4	1	8	2	9	10	3
+8										

2. I- Whole Numbers to 101

	13	11	9	14	15	16	17	12	10	8
-7										

3. [x Whole Numbers to 10]

	7	5	6	4	1	8	2	9	10	3
× 6										

4 [+ Whole Numbers to 10]

56	21	35	14	63	70	7	42	49	28
÷ 7									

MULTIPLYING BY 11

Find the answer to multiplications like $14235 \times 11 = 156585$ easily.

· Write down the right hand digit, in this case 5.

+ Add the digits in pairs, starting from the right.

+ To finish, write down the left hand digit, in this



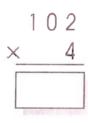
Try your skill:

Answers: 25795, 420 574

5. [Large Number +]

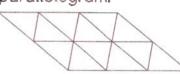
	3	1	3
	2	2	5
	1	0	1
+		2	0
_	_		

8. [Large Number ×]



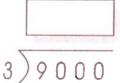
11. [Fractions]

Shade in $\frac{1}{3}$ of one half of this parallelogram.



6. [Large Number --]

9. [Large Number +]



12. [Place Value] What is the value of the numeral 3 in the number 5632?



10. [Decimals]

What number is shown by the arrow on the scale?

14.	[Word Numbers]
	Express in numerals:
	Three hundred and thirteen

13. [Order of Operations]

18 - 9 - 2 =

15. [Number Patterns]

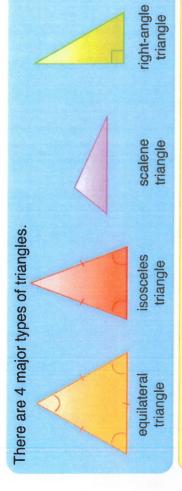
2, 10, 18, 26, 34,	_ ′ _
--------------------	-------

[Powers of 10 x,+]

			6	5
×	1	0	0	0

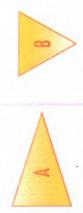


Triangles



Study the triangles before answering the questions. Write all answers on your response sheet.

- 1 Which triangle has all its sides the same length?
- Which triangle has 2 of its sides the same length?
- Which triangle has a right angle?
- Are all the sides on a scalene triangle the same length?
- 5 Which triangle has 2 of its angles the same size?
- 6 Which triangle has 3 of its angles the same size?







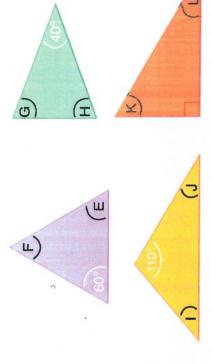




- 9 Name triangle C
- 10 Name triangle D

8 Name triangle B 7 Name triangle A

- 11 Is it possible for triangle C to be both a right-angle triangle and an equilateral triangle?
- 12 Is it possible for triangle D to be both a right-angle triangle and an isosceles triangle?



Measure the angles using a protractor.

1/ angle I	18 angle J	19 angle K	20 angle L
is arigie E	14 angle F	15 angle G	16 angle H

21 What is the sum, in degrees, of the angles in each triangle above?





calculate the angle sum of the shapes that have been Now you know the sum of the angles in each triangle, broken into triangles for you.

- 23 the hexagon 22 the square
- 24 the trapezium
 - 25 the pentagon

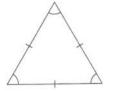
Revising polygons

A polygon is any two-dimensional shape that has three or more straight sides and angles.

8 Name the four types of triangles.

scalene, isosceles, right angle, equilateral

a



b



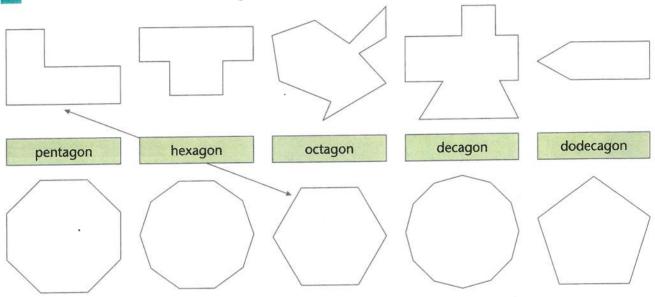
C



d

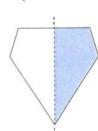


Draw lines to match the regular and irregular polygons to their names.



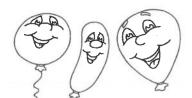
10 Record the properties of these regular polygons.

	Illustration	Name	Number of sides	Number of angles	Number of axes of symmetry
а					
b					
C					



An axis of symmetry divides a shape into halves.





MIXED TIMES TABLES



Fill in the missing numbers.

Write over the number sentences and say them out aloud as you fill in the correct answers.



$$21 \div = 7$$



