





Monday

- $60g + 30g =$
- Does this shape tessellate? 
- $1m\ 34cm =$ cm
- $6 \times 4 = 24$ so $24 \div 6 =$
 $4 \times 6 = 24$ so $24 \div 4 =$
- $\frac{1}{2}$ of $18 =$
- What time is **6:55** in analogue form? to
- $\frac{25}{5} =$
- $$\begin{array}{r} 65 \\ \times 6 \\ \hline \end{array}$$
- What fraction is not shaded? 
- Write the next two terms.
 $92, 91, 89, 86, 82,$,
- $6 \overline{)32}$
 R
- $(4 \times 5) + 100 =$
- There are 34 bananas in a box.
How many bananas are in 6 boxes?
- Mommy divided a pizza into 10 equal slices. Mark ate 3 slices.
What fraction was left?
- Jack started playing on his PlayStation at **3:50**. He spent $1\frac{1}{2}$ hours playing. At what time did he finish?
- There were 240 passengers on a train travelling to Sligo.
At Longford, 79 got off and 38 got on. How many passengers were on the train then?

Tuesday

- Round 436 to the nearest 10.
- $159c = \text{€}$
- Which has more area shaded,
 3×3 or 2×4 ?
- $5 \times 7 = 35$ so $35 \div 5 =$
 $7 \times 5 = 35$ so $35 \div 7 =$
- $\text{€}2.64 =$ 
-  Colour $\frac{4}{10}$ of the circle.
- Which two 2-D shapes make a cylinder?
- $$\begin{array}{r} 67 \\ \times 5 \\ \hline \end{array}$$
- Arrange these decimals in order of size, starting with the largest:
 $0.4, 0.7, 0.6,$, ,
- $35 \div 8 =$ R
- $\frac{1}{4}$ of a number is 6.
What is the number?
- $9 \times$ $= 81$
- How much does it cost to buy chips and a burger?

Mr Luigi's Restaurant	
Chips	€2.40
Burger	€6.30
Chicken strips	€3.50
Smoked cod	€5.50
- How much does it cost to buy chicken strips and a smoked cod?
- What change will I get out of €10.00 if I buy chips and a smoked cod?
- What change will I get out of €10.00 if I buy chicken strips and a burger?

Wednesday

- $1\frac{1}{2}$ hours = minutes
- $6 \times 7 = 42$ so $42 \div 6 =$
 $7 \times 6 = 42$ so $42 \div 7 =$
- $60\text{cm} + 7\text{cm} + 400\text{cm} =$
- What is the 7th month of the year?
- Write the next 3 terms in this sequence:
 $\frac{1}{2}, 1, 1\frac{1}{2}, 2,$, , .
- $\frac{45}{6} =$ R
- $2 \overline{) 48}$
- A triangular prism has faces and edges.
- If $\frac{1}{8}$ of a number is 5, what is the number?
- $6 \times$ = 36
- $$\begin{array}{r} 4\text{kg } 380\text{g} \\ - 2\text{kg } 290\text{g} \\ \hline \end{array}$$
- Circle the 4 that has the greatest value. **56.4** **24.3** **42.3**
- Seán had 20 sweets. He gave 5 of them to Ann. What fraction of his sweets had he left?
- A football match started at **5:30** and lasted for 1 hour 40 minutes. At what time did it finish?
- Joe has 47 stickers.
Jim has 3 times as many.
How many stickers has Jim?
- 6 people can travel in a taxi.
How many taxis are needed for 32 people?

/16

Thursday

- What is the value of the underlined digit: 622?
- $\frac{3}{4}\text{l} =$ ml
- $9 \times 10 =$
- $\text{€}1.00 - 45\text{c} =$ c
- A cube has faces and edges.
- $$\begin{array}{r} 47 \\ \times 5 \\ \hline \end{array}$$
- Write the next 3 terms in this sequence:
4, $3\frac{1}{2}$, 3, $2\frac{1}{2}$, , , .
- If $\frac{1}{2}$ a number is 35, what is the number?
- $\frac{6}{10} < 0.8$. True or false?
- $\frac{2}{4} = \frac{?}{8}$.
What is the missing digit?
- $8 \times$ = 48
- $$\begin{array}{r} 3\text{kg } 460\text{g} \\ + 2\text{kg } 345\text{g} \\ \hline \end{array}$$

What would the following measure if you poured them into a measuring jug:

At the supermarket

Milk	2l
Shampoo	250ml
Orange juice	850ml
Water	1l 250ml
Yogurt	390ml

- milk and water?
- yogurt and orange juice?
- shampoo and orange juice?
- How many bottles of shampoo do I need to make 1 litre?

/16

Tenths

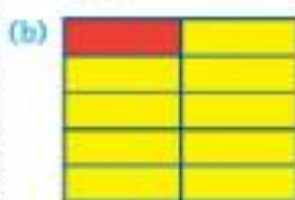


Each of these shapes is divided into 10 equal parts. Each part is called one-tenth or $\frac{1}{10}$. There are 10 tenths ($\frac{10}{10}$) in a unit.

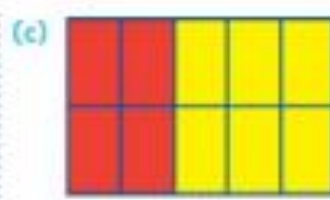
1. What fraction of each of these shapes is coloured (i) red; (ii) yellow?



- (i) red ____
(ii) yellow ____

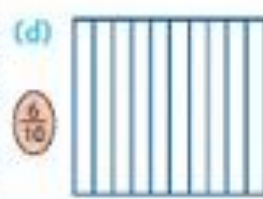
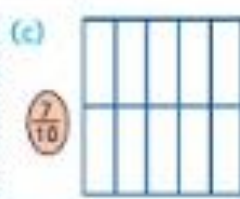


- (i) red ____
(ii) yellow ____



- (i) red ____
(ii) yellow ____

2. Colour the correct fraction of each of these shapes.



This set of triangles is divided into 10 equal amounts. What fraction of the set is coloured? ____

4. Divide each set into 10 equal amounts.



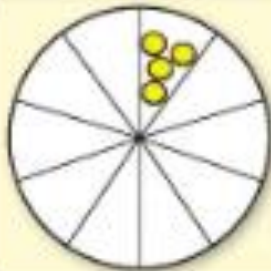
$\frac{1}{10}$ of the set = ____




$\frac{1}{10}$ of the set = ____

5. (a) $\frac{1}{10}$ of 40 = ____ (b) $\frac{1}{10}$ of 60 = ____ (c) $\frac{1}{10}$ of 80 = ____ (d) $\frac{1}{10}$ of 50 = ____
(e) $\frac{1}{10}$ of 70 = ____ (f) $\frac{1}{10}$ of 10 = ____ (g) $\frac{1}{10}$ of 30 = ____ (h) $\frac{1}{10}$ of 90 = ____

Tenths: Finding the whole amount (set)




$\frac{1}{10}$ of this set = 4 counters
 $\frac{10}{10}$ of the set
 $= 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4$
 Whole set $\rightarrow 4 \times 10 = 40$ counters



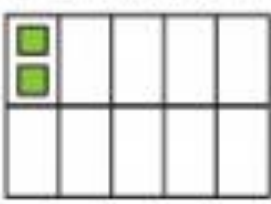
1. Find the whole amount in each set. Draw the missing items to help you.

(a)



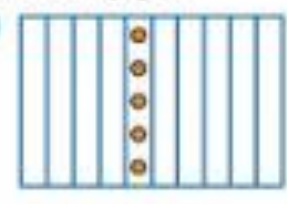
$\frac{1}{10}$ of the set = 3
 Whole set $\rightarrow \underline{\hspace{1cm}} \times 10$
 $= \underline{\hspace{1cm}}$

(b)



$\frac{1}{10}$ of the set = $\underline{\hspace{1cm}}$
 Whole set $\rightarrow \underline{\hspace{1cm}} \times 10$
 $= \underline{\hspace{1cm}}$

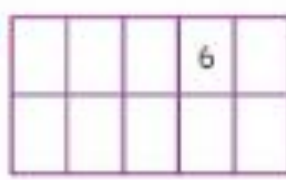
(c)



$\frac{1}{10}$ of the set = $\underline{\hspace{1cm}}$
 Whole set $\rightarrow \underline{\hspace{1cm}} \times 10$
 $= \underline{\hspace{1cm}}$


2. Find the total for each of these. (You may write in the missing numbers.)

(a)




$\frac{1}{10} = 6$
 Total = $\underline{\hspace{1cm}} \times 10$
 $= \underline{\hspace{1cm}}$

(b)



$\frac{1}{10} = \underline{\hspace{1cm}}$
 Total = $\underline{\hspace{1cm}} \times 10$
 $= \underline{\hspace{1cm}}$

(c)



$\frac{1}{10} = \underline{\hspace{1cm}}$
 Total = $\underline{\hspace{1cm}} \times 10$
 $= \underline{\hspace{1cm}}$

3. Find the whole amount for each of these.

(a) $\frac{1}{10} = 3$
 $\frac{10}{10} = \underline{\hspace{1cm}}$

(b) $\frac{1}{10} = 8$
 $\frac{10}{10} = \underline{\hspace{1cm}}$

(c) $\frac{1}{10} = 10$
 $\frac{10}{10} = \underline{\hspace{1cm}}$

(d) $\frac{1}{10} = 7$
 $\frac{10}{10} = \underline{\hspace{1cm}}$

(e) $\frac{1}{10} = 9$
 $\frac{10}{10} = \underline{\hspace{1cm}}$

4. Find the whole number when...

(a) $\frac{1}{10}$ of it is 6.
 Whole number = $\underline{\hspace{1cm}}$

(b) $\frac{1}{10}$ of it is 7.
 Whole number = $\underline{\hspace{1cm}}$

(c) $\frac{1}{10}$ of it is 1.
 Whole number = $\underline{\hspace{1cm}}$

E Grammar: More Adjectives

Some **adjectives** are used to show possession or ownership. They are called **possessive adjectives**. They are: **my, your, his, her, our, their, its**.

Example: Sofia read **her** book in **their** library.

1. Write the possessive adjectives in the following sentences.

- (a) I insist upon my rooms being beautiful. _____
- (b) An amazing sight met their eyes. _____
- (c) Willie put the chocolate in his mouth. _____
- (d) 'Don't lose your heads!' said Mr Wonka. _____
- (e) Violet took the chewing-gum out of her mouth. _____

2. Write 15 words using the letters in the word **rhododendrons?**

- | | | |
|-----------|-----------|-----------|
| (a) _____ | (b) _____ | (c) _____ |
| (d) _____ | (e) _____ | (f) _____ |
| (g) _____ | (h) _____ | (i) _____ |
| (j) _____ | (k) _____ | (l) _____ |
| (m) _____ | (n) _____ | (o) _____ |

Adjectives- Describing words **Verbs-** Action Words **Adverbs-** Tells us more about a verb and usually end in a -ly

2. Write three adjectives, verbs and adverbs used in the passage.

- | | | | |
|-------------|-----------|-----------|-----------|
| Adjectives: | (a) _____ | (b) _____ | (c) _____ |
| Verbs: | (a) _____ | (b) _____ | (c) _____ |
| Adverbs: | (a) _____ | (b) _____ | (c) _____ |

17 Salann ar an mBord





3 Thosaigh Learai Óg ag screadaíl agus ag caoineadh.



4 D'fhéach Ollai isteach sa chistin. Isteach le Daidi ar nós na gaoithe. Amach le Salann agus na hispíní ina bhéal.



A ? Ceist agam ort

1. Cé a bhí ag súgradh sa ghairdín?

2. An raibh balún uisce ag Daideo?

3. Cad a bhí ar an mbord?

4. Cad a chonaic Learai Óg?

5. Cad a bhí ina bhéal ag Salann?



Unit 16: The Sun



New Words

supernova

galaxy

solar system

hydrogen

helium

winter solstice

eclipse

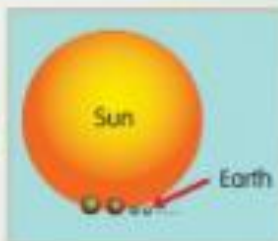


Hot Geography

How Old is the Sun?

Unlike a fire in your fireplace, the sun does not 'go out'. This is because the sun makes its own fuel. Gases like hydrogen and helium mix together in the sun to create massive explosions. These explosions send light and heat to Earth.

The sun is a star. Stars are born, they live for a while and then they die when they get old. Our sun is about 4.5 billion years old. It is halfway through its life. It is one of the billions of stars that make up the Milky Way Galaxy. A galaxy is a huge collection, or group, of stars. Everything in our solar system was born when a giant star exploded. The explosion is known as a supernova. Gas, ice and dust surrounded the newly formed sun. The gas, the ice and the sun crashed into one another and joined up to make the planets and moons of our solar system. The sun is the biggest thing in our solar system. 1.3 million Earth-size planets could fit inside the sun!



Planet Earth Moving and Spinning

It takes the Earth 365½ days (a year) to go around the sun. However, you cannot have one-quarter of a day in a year. Four-quarters make one whole, so every four years, an extra day is added in February. This is called a leap year. While the Earth is moving around the sun, it is also spinning. It takes the Earth 24 hours to do a full spin. This gives us day and night. When it is daytime in Ireland, it is night-time on the other side of the world.



Long and Short Days

A day and a night together make up 24 hours. Days in summer are much longer than days in winter. When we say 'longer' we mean that we have more daylight time in summer than we do in winter. During our winter, the North Pole faces away from the sun. This gives us short days and long nights. Our shortest day of the year, the winter solstice, is around December 21st.

Subject: Geography Strand: Natural Environments
Strand Unit: Planet Earth in Space

Subject: Science Strand: Energy and Forces
Strand Unit: Heat



During our summer, the North Pole faces towards the sun. This gives us long days and short nights. Our longest day of the year, the summer solstice, is around June 21st. Day and night at the equator are always of equal length. At the North and South Poles, days last up to 24 hours in summer, while nights last up to 24 hours in winter.



The Solar System

Sometimes scientists change their minds! Long ago, scientists knew that there were six planets: Mercury, Venus, Earth, Mars, Jupiter and Saturn. Then they found another planet (Uranus), then another (Neptune) and then another (Pluto). They made up a way for us to remember the names of the nine planets: **My Very Educated Mother Just Showed Us Nine Planets**. Then they started finding other planets like Sedna and Eris. "Holy Jupiter!" said one scientist. "How will children remember the names of all these planets?" The scientists held a big meeting to decide what to do. "From now on," they said, "there are only eight planets in the solar system. Pluto is too small to be called a planet. It is only a dwarf planet."



Hot Geography

An eclipse occurs when the moon moves between the Earth and the sun. It blocks the light of the sun from reaching Earth.



Planets of the Solar System

Mercury is named after the Roman god of travel, because it moves so quickly across the sky. It is a small, rocky planet with no moons.

Venus is named after the Roman god of love and beauty, because it is the brightest planet. It is also the hottest planet.

Earth is the only planet on which there are living things. About three-quarters of its surface is covered with water.

Mars is named after the Roman god of war. It has a mountain that is almost three times taller than Mount Everest. It is called Olympus Mons.

Jupiter is named after the king of the Roman gods. It is the largest planet in our solar system. You could fit 1000 Earth-sized planets inside Jupiter. It is made of gas.



Saturn is the lightest planet and it has 62 moons. Its rings are made from chunks of ice and rock.

Uranus can be seen in the night sky with a telescope. The gas in its atmosphere makes it look blue. It has 27 moons.

Neptune is named after the Roman god of the sea because it is blue. It takes 165 years for Neptune to go around the sun.

Activities

A. Fill in the Blanks.

The sun is about _____ billion years old. It is part of a galaxy called the _____. It was born when a huge star exploded. This is called a _____. It takes the Earth _____ days to move around the sun. The Earth is also spinning. It takes the Earth _____ hours to do a complete spin. That makes day and night. In summer, days are _____, but in winter they are _____.

B. Get Creative.

1. Write clues for the eight planets and ask a friend to fill in the answers.
(For example: *I am the largest planet in the solar system. Who am I?*)
2. Make up a new way to remember the eight planets in the solar system.
(For example: *Many Very Elderly Monkeys Just Snooze Under Newspapers.*)

