

## Helper


meaniny

The north|l|hhrase
pictivend

seribince

Name: Date:

Highlight the coordinating conjunctions in green and the subordinating conjunctions in yellow. Remember to use FANBOYS to find coordinating conjunctions.

| for | after | if |
| :---: | :---: | :---: |
| whenever | since | nor |
| yet | as | before |
| because | and | though |
| while | or <br> bo | so |
| so that | although | but |

## Answers

Coordinating are highlighted green and subordinating conjunctions are highlighted yellow.

| for | after | if |
| :---: | :---: | :---: |
| whenever | since | nor |
| yet | as | before |
| because | and | though |
| while | or | so |
| so that | although | but |

16 Ship Hill,

| Rother Helm, |
| :--- |
| Yorkshire, |
| $\$ 60 ~ 2 P L$ |

Dearside House,
Main Street,
Yorkshire,
I have recently been informed of your plans to cancel the kerbside collection of plastic waste

- an idea I vehemently oppose. I am confident that, upon understanding the consequences of
this decision, the council will abolish plans to make such cuts.

In order to cancel the current, effective kerbside collection, the council intends to provide costly additional bins. This is sure to greatly impact the council's budget with detrimental effect. Many people believe that the initial cost of the new bins will be greater than the total cost of maintaining current collections. It therefore seems wasteful to change the current way of working. I am confident that the council would not intentionally make a wasteful decision.

> Residents fear that the council's proposed changes will result in unpleasant, dirty waste littering the streets due to lack of proper recycling methods. Our town's streets are likely to become overrun with rodents feasting from the unhygienic litter which has not been properly recycled due to council cuts. Inevitably, this will lead to a rise in pest control costs. This would cost the council more money than the initial cuts would save - a completely avoidable deficit.
$\qquad$ , the environmental impact of this seemingly reckless decision could be catastrophic. Although you acknowledge that your current waste treatment facility attempts to take plastic waste out of regular collections, how many pieces of plastic waste are simply missed? This oversight could result in millions of pieces of perfectly recyclable plastic being carelessly discarded into landfill, remaining there indefinitely rather than being reused in a valuable way. The council simply must prioritise environmental wellbeing.

[^0]
## Writing Resource 2 - Example 2

Flat Ba Needy Row,
Crimson Lagoon,
Helperson,
Far Away Island,
Victimstown.
Mysteryville,
HE1 9ME
MY57 3RY

Sunday $1^{4}$ January
Dear Ms Vengeance,
As the new year breaks and our beloved town is in peril, I appeal to you for your vital help in catching the Phantom Prankster. I know that this is an opportunity you will not be able to refuse.
__ , the Phantom Prankster is a formidable enemy. It is going to require someone of immense strength and agility to match his prowess - attributes only you can bring. Your unrivalled abilities make you the ultimate candidate to provide your services and the glory you will achieve from the victory will be renowned across the land. It's an opportunity you cannot miss.

A useful piece of information to note is that the Phantom Prankster is currently suffering from the flu; his defences are weakened and his judgements are temporarily clouded. Due to his illness, he has not been moving around as regularly as he likes to - the perfect opportunity to pounce whilst he least expects it. Surely you don't want to miss the perfect opportunity to use his flu to your advantage?

A fact you must consider is that the residents of Victimstown are at their wit's end. They live in fear of the Phantom Prankster - many refusing to leave their home in the wake of his terror. The tricks he plays leave them embarrassed and confused: who would want to live this way? His reign over the town must come to a swift end.

[^1]
## One-Step Division Word Problem: <br> Exact Answer

A group of 48 children is divided into groups of 6 children. How many groups will be formed?


$$
48 \div 6=8
$$

There will be 8 groups.

## One-Step Division Word Problem:

Remainder Not Used

A pot holds 6 pencils.
How many full pots can be made from 51 pencils?


$$
51 \div 6=8 \text { r3 }
$$

The remainder is not used. 8 pots will be filled with 6 pencils.

## One-Step Division Word Problem:

Remainder Used

A table seats groups of 6 children. How many tables are needed for 45 children?


$$
45 \div 6=7 \text { r3 }
$$

The remaining children need a table.
8 tables are needed.

A sports shop has 3 packs of balls, each containing four balls. It also has 52 balls which are also made into packs of four balls. How many packs of four balls are there now?

$52 \div 4=13 ; 13+3=16$
There are 16 packs of balls.

## Two-Step Division Word Problem: Division Second

There are 16 girls and 15 boys in a class. They are organised into tables of four. How many tables are needed to sit all of the children?

$16+15=31 ; 31 \div 4=7 r 3$; the remainder is used. 8 tables are needed.

## Multi-Step Division Word Problem (1)

A toy shop has 3 bags of 12 marbles, and 6 bags of 8 marbles. The marbles are combined to make new bags of 15 marbles. How many full bags will be made?


$$
\begin{gathered}
12 \times 3=36 \\
8 \times 6=48 \\
36+48=84 \\
84 \div 15=5 r 9
\end{gathered}
$$

5 bags of 15 marbles will be made.

## Multi-Step Division Word Problem (2)

A teacher has 48 pencils and 27 pens. The teacher shares the pens and pencils equally into 6 pots. How many writing implements are shared into each pot?


Each pot will have 12 writing implements.

## Maths Resource 2 (3 pages)

## One-Step Division No Remainders

Word Problems


One-Step Division No Remainders Word Problems
2. A crate holds 72 bottles. How many packs of 6 bottles will be in each crate?

1. A teacher asks some children to arrange 36 chairs into rows of nine chairs. How many rows will there be?


One-Step Division No Remainders Word Problems
3. A photographer prints 96 photographs to arrange in an album. Each page will contain 8 photographs. How many pages will be used?

One-Step Division No Remainders Word Problems
4. Apples are sold in packs of seven apples. How many packs can be made from 91 apples?


One-Step Division No Remainders Word Problems
6. There are 68 tennis balls in a tub. The tennis balls are organised into sets of four tennis balls. How many sets will there be?

One-Step Division No Remainders Word Problems
5. A large pack of 132 marbles is shared equally into 12 bags. How many marbles will there be in each bag?

One-Step Division No Remainders Word Problems
7. Thank you cards are sold in packs of 5 cards. How many packs can be made from 125 cards?

8. 105 books are arranged onto some shelves. There are fifteen books on each shelf. How many shelves are used?

## Answers

1. 4 rows 5. 11 marbles
2. 12 packs
3. 17 sets
4. 12 pages
5. 25 packs
6. 13 packs
7. 7 shelves

## Maths Resource 3 (3 pages)

## One-Step Division <br> With Remainders

## Word Problems



One-Step Division With Remainders Word Problems
2. Forty-six pieces of apple are shared equally among 9 children. How many pieces of apple do each receive?

1. A teacher asks some children to organise a box of 37 quoits by hanging them in threes on some hooks. How many hooks are needed?

One-Step Division With Remainders Word Problems
3. In an office, there are 8 desks. A pack of 35 sets of sticky notes need sharing equally among the desks. How many sets of sticky notes are on each desk?

4. A group of 57 dancers are organised into groups of nine. How many full groups of nine can be created?


One-Step Division With Remainders Word Problems
6. Bananas are sold in packs of five. How many complete packs of five bananas can be made from 136 bananas?
5. A factory makes 67 cars in one day. Each car transporter can carry 8 cars. How many transporters are needed to carry all the cars away?

One-Step Division With Remainders Word Problems
7. A school party of 86 children are to travel on a steam train. 9 children can fit into each compartment. How many compartments will be needed?

One-Step Division With Remainders Word Problems
8. A plate holds 6 pieces of cake. How many full plates can be created from 74 pieces?

One-Step Division With Remainders Word Problems

## Answers

1. 13 hooks
2. 9 transporters
3. 5 pieces
4. 27 packs
5. 4 sets
6. 10 compartments
7. 6 groups
8. 12 cakes


## Two-Step Division

 Word Problems

Two-Step Division Word Problems
2. A pencil factory makes 463 pencils in one hour, but 32 are found to be faulty. The pencils are sold in packs of 12 . How many packs will be filled by the non-faulty pencils?

1. There are seventeen boys and fourteen girls in a class. The children sit at tables of 4. How many tables are needed?

Two-Step Division Word Problems
3. A teacher has 2 boxes of pencils. One has 173 pencils and the other 149 pencils. He puts the pencils together and shares them equally into 7 pots. How many pencils will there be in each pot?

4. A grocer has 189 baking potatoes. The grocer puts 75 baking potatoes out individually and bags the rest of the potatoes into packs of 6 . How many packs of 6 does the grocer make?
5. A toy warehouse has 156 packs of 3 cars. The cars are to be re-boxed in packs of 5 . How many packs of 5 can be made from these cars?


Two-Step Division Word Problems
6. A sports trust organises a football competition. 23 teams of 11 players enter, and 176 individual players who want to be made into new teams. If all the individual players are made into new teams of 11 players, how many teams will play in the competition?


Two-Step Division Word Problems
7. Marbles are sold in bags of 25 . A marble machine produces 1892 marbles per hour. How many bags of 25 marbles can be filled from the marbles made by this marble machine in six hours?
8. A sports shop has 45 boxes of tennis balls, each with 3 tennis balls. It also has 129 tennis balls which are put into boxes of 3 tennis balls. How many boxes are there altogether?

## Answers

1. 8 tables 5. 93 packs
2. 35 packs
3. 46 pencils
4. 19 bags
5. 88 boxes

## Maths Resource 5 (3 pages)

## Multi-Step Division Word Problems Challenge Cards



## Multi-Step Division Word Problems Challenge Cards

2. A child has a collection of football cards. They are to be kept in a folder with 9 cards on each page. The child has 28 complete sets of 12 cards, and another 61 cards. How many pages will be needed to store the cards.

3. A teacher has 7 packs of 12 pencils and 2 packs of 54 pencils. The teacher shares these pencils out into 8 pencils pots. How many pencils will be in each pot?


Multi-Step Division Word Problems Challenge Cards
3. A printer can print 14 birthday cards on a sheet of card. The printer needs to print the following:

- 28 packs of 4 cards
- 18 packs of 10 cards

How many sheets of cards will be needed to print these cards?
4. A ten pin bowling alley buys 6 packs of new pins, with each pack containing 8 pins. All the pins in the alley are collected from the lanes and counted. Of the 267 pins, 29 are thrown away due to damage. The remaining pins and new pins are combined and shared equally among the 18 lanes, with any remaining pins kept as spares. How many pins will be allocated to each lane?

## Multi-Step Division Word Problems Challenge Cards

6. At a dancing school, there are 2 classes. The younger class has 65 pupils. The older class has 41 pupils. For a dance, there will be eight equal groups of dancers. How many dancers will there be in each group?
7. A local charity has 3 fundraising events. The events raise $£ 176, £ 81$ and $£ 309$ each. After costs of $£ 92$ are deducted, the money is shared equally among 3 local children's group. How much does each group receive?

## Multi-Step Division Word Problems Challenge Cards

7. Daffodils are arranged into bunches of 12 flowers. A florist buys 9 crates, each with 150 flowers, from one supplier and 4 crates, each with 115 flowers from another. How many bunches of 12 daffodils can be made?
8. A machine produces a toy car every 16 minutes. The machine is switched on at 8.30am each morning and switched off as soon as it finishes a car after 5.15 pm . How many cars are produced each day?


## Answers

1. 24 pencils
2. 45 pages
3. 21 sheets
4. 15 pins
5. $£ 158$
6. 13 dancers
7. 150 bunches
8. 33 cars (8.30am to 5.15 pm is 525 minutes. $525 \div 16$ $=32$ r13. The 33rd car will be finished at 5.18 pm .)

## Shadows

For a shadow to be formed an object must block light．
The object must be opaque or translucent to make a shadow．A transparent object will not make any shadow，as light passes straight through transparent objects．

## Task 1 －Testing items

Select 10 items from around your house and investigate whether it creates a shadow or not．Method：take a torch，phone or other light source．Place the item on the table or floor and shine the light source through the item．

What happens？Does it create a large shadow？Is it dark？How did you make it a fair test？Fill in the table below．

How I made it a fair test．

| Household item | Shadow or no shadow？ | Is the item opaque or translucent？ |
| :--- | :--- | :--- |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

## Task 2 - How can I change a shadow?

We are going to find out how changing the distance between the light source and the object changes the size of the shadow. Using your knowledge from task 1, what do you think will happen? Write a prediction below:

I think that when the item moves away from the light source the shadow will
$\qquad$
$\qquad$
$\qquad$
$\qquad$
because $\qquad$
$\qquad$
$\qquad$
$\qquad$

Method: take a torch, phone or other light source. Place the light source on the end of the ruler (we have included one so don't worry if you don't have one at home!) and the object on 0 cm . Draw around the shadow. Repeat, placing the item at $2 \mathrm{~cm}, 4 \mathrm{~cm}$, $8 \mathrm{~cm}, 10 \mathrm{~cm}, 12 \mathrm{~cm}$ and 14 cms .

What happens to the shadow shape? Does it get longer? Does it get darker or lighter?
Does it get wider?

I found out that when the item moves away from the light source the shadow got

I think this happen because $\qquad$
$\qquad$
$\qquad$
$\qquad$ .

This is $\qquad$ as my prediction.


## Art Resource 1 ( 7 pages)



## Aim

- To explain the features and purposes of Maya masks.


## Success Criteria

- I can explain how Maya masks were used.
- I can locate the Maya civilisation in time and place.
- I can design and make a Maya mask.



## Who Were the Maya?

The Maya were a civilisation who lived in modern-day Mexico, Guatemala, Belize, Honduras and El Salvador. The Maya civilisation lasted from around 1000 BC to AD 1697.


Can you locate the Maya civilisation on the map?

## What Were Masks Used For?

Masks played a central role in Maya culture. They were made for a variety of occasions and purposes. In fact, they were even used to decorate temples.


## Event Masks

Masks were often inspired by animals; they were vibrant and colourful.

The Mayas believed that animals represented the spirits. For example, many Maya often associated strong kings with jaguars.

Event masks were usually made out of cedar wood.

## Death Masks

Mayas were buried with a death mask, which was intended to protect the wearer on their journey to the afterlife.


The death mask of King Pakal is one of the most famous Maya artefacts. Pakal ruled the city of Palenque for 68 years. During this time, the city became very wealthy.

Each mask was made by hand and inspired by the maker's own imagination. Jade, a precious stone, was used because it symbolised the soul.


## Design a Mask

Your task is to design a Maya mask. Decide whether you want to design an event mask or a death mask. Use the template to develop your design.


Think about how you will make your mask. Which materials will you need?

## Maya Masks Activity

Aim: To design and make a Maya mask

Masks played a central role in Maya culture. They were made for a variety of occasions and purposes. In fact, they were even used to decorate temples. Wealthy Maya were buried with a death mask, which was intended to protect the wearer on their journey to the afterlife.

## Instructions

1. Use the template below to design a Maya mask.
2. Decide whether you are going to make an event or death mask. Use colours and designs to suit this.
3. List the equipment and resources you will need.
4. Write simple instructions to help you make your mask.



[^0]:    - , the public are adamantly opposed to the council's decision and demand a meeting to present all relevant facts. Once these are presented, I am confident that the council will see the error in their ways and revoke the decision.

    Yours faithfully,
    Mr I. Rate

[^1]:    you are the only superhero with the skills, knowledge and strength to battle the Phantom Prankster. Your generosity and warm heart make me absolutely certain that you will want to protect Victimstown at any cost. Don't let us down.

    Yours sincerely,

