

Welcome to our class

Hi boys and girls and parents. This document contains everything you need for your next block of learning. Read your grid first and then use this document for all the things you will need for your home learning. I have included a table of contents so that you know where everything is. As always, I am available on Teams every day, so you will be able to get in touch instantly if you have any questions about your learning. You can also contact me by email if that suits better. Missing you all. Please keep sharing your learning with me via Teams or email.

Love from Miss Dickie



P.5 Timetable in effect from April 2020

	MON	TUE	WED	THUR	FRI	SAT	SUN	MON	TUE	WED	THUR	FRI	SAT	SUN
Y5	Literacy Spelling and Accelerated Reading		Maths	ICT	PE	Music								
Y4	Literacy Reading Skills		Maths		Technology (PACE)									
Y3	Literacy Grammar	Maths Number Talks	Assembly (P4-7 HECT)	PE Mrs Carr	French Mrs Carr	Science Mrs Carr								
Y2	Literacy Reading Skills		PE	HWB	Maths	DT								
Y1	Literacy Writing Skills		Maths	ICT	DT	Art and Design								



a Bb Cc Dd Ee Ff Gg Hh Ii Jj Kk Ll Mm Nn Oo Pp Qq Rr Ss Tt Uu Vv Ww Xx Yy Zz

All links to websites are hyperlinked. Click the link and it will take you straight to where you need to go!



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11-13	National Book Token competition
14	Maths: a note from Miss Dickie
15-29	Maths learning for next two weeks
30-34	McDonalds Chilli Challenge

N.B Please do not print every single page off! There is no need to print them all. If you are happy working from a screen then no need to print any. 😊

# P5 SPELLING WORDS

wordart.com details  
Login: coytonp5  
Password: Password!

## CV Book 4 Week 1 01.06.20

### wa words

- 1) walk
- 2) wand
- 3) wasp
- 4) water
- 5) wallet
- 6) walnut
- 7) walrus
- 8) watch
- 9) swallow
- 10) swamp
- 11) swarm
- 12) swan
- 13) wardrobe
- 14) warren
- 15) warrior
- 16) waterfall

Discuss your words with an adult at home! Reduced word list group copy first 12 words only.

## Prim-Ed C Week 1 01.06.20

### war words

- 1) war
- 2) warrior
- 3) warp
- 4) warning
- 5) ward
- 6) wardrobe
- 7) warn
- 8) warmth
- 9) Scotland

Discuss your words with an adult at home!

## CV Book 4 Week 2 08.06.20

### ss words

- 1) class
- 2) cross
- 3) guess
- 4) press
- 5) assist
- 6) hassle
- 7) missile
- 8) vessel
- 9) address
- 10) embarrass
- 11) harness
- 12) success
- 13) assembly
- 14) glossary
- 15) necessary
- 16) possession

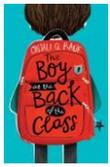
Discuss your words with an adult at home! Reduced word list group copy first 12 words only.

## Prim-Ed C Week 2 08.06.20

### war words

- 1) swarm
- 2) dwarf
- 3) award
- 4) warden
- 5) towards
- 6) warren
- 7) reward
- 8) warlock
- 9) fortnight

Discuss your words with an adult at home!



# THE BOY AT THE BACK OF THE CLASS



## Week 1: Day 1 of reading

Read chapter 15, then using your comprehension pack, answer the following:-

- 1 x Vocabulary question
- 1 x Inference question
- 1 x Prediction
- 1 X Explanation question
- 1 X Retrieval question
- 1 x Summarise

You should have answered 6 questions.  
Remember to include part of the question in the answer.

## Week 1: Day 2 of reading

Read chapter 16

No written task today but reflect on the reading by discussing the main events with someone at home and discuss what could possibly happen next.

## Week 1: Day 3 of reading

Read chapter 17, then using your comprehension pack, answer the following:-

- 1 x Vocabulary question
- 1 x Inference question
- 1 x Prediction
- 1 X Explanation question
- 1 X Retrieval question
- 1 x Summarise

You should have answered 6 questions.  
Remember to include part of the question in the answer.

## Week 2: Day 1 of reading

Read chapter 18, then using your comprehension pack, answer the following:-

- 1 x Vocabulary question
- 1 x Inference question
- 1 x Prediction
- 1 X Explanation question
- 1 X Retrieval question
- 1 x Summarise

You should have answered 6 questions.  
Remember to include part of the question in the answer.

## Week 2: Day 2 of reading

Read chapter 19

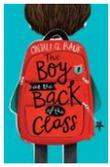
No written task today but reflect on the reading by discussing the main events with someone at home and discuss what could possibly happen next.

## Week 2: Day 3 of reading

Read chapter 20, then using your comprehension pack, answer the following:-

- 1 x Vocabulary question
- 1 x Inference question
- 1 x Prediction
- 1 X Explanation question
- 1 X Retrieval question
- 1 x Summarise

You should have answered 6 questions.  
Remember to include part of the question in the answer.



# THE BOY AT THE BACK OF THE CLASS

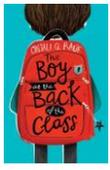


## Week 1 Fun Task

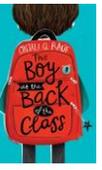
In Chapter 16, the narrator writes a very special letter to the Queen asking for her help in reuniting Ahmet with his parents. To make sure that the letter gets there on time, the narrator picks three stamps to go on the envelope. The narrator chooses the stamps that have the nicest pictures. Some of you may be confused by this, but the narrator is correct – sometimes stamps contain pictures. I'm sure you can tell me what ANY stamp must have on it. That's right! It must have the Queen's head on the stamp. Check out this link from Royal Mail.  
<https://rmspecialstamps.com/> They have hundreds of designs that have been used over the years!

Your task is to design three new stamps that the narrator could use instead. I have included some examples below but please definitely check out the link above.





# THE BOY AT THE BACK OF THE CLASS



## Week 2 Fun Task

In Chapter 18, the narrator and Tom set off for London as they are going to Buckingham Palace to find the Queen. Buckingham Palace is a very famous landmark in London but they get a surprise when they get there because the Queen is actually residing at one of her other residences – Windsor Castle.

Your task is to use technology to research Buckingham Palace or Windsor Castle and create an eye-catching fact-file about one of these famous landmarks. I've included an example of one I have found online.

### The Tower of London



The first part of the Tower of London was built by William the Conqueror in 1078 but what we now call the Tower is actually a collection of several different buildings.

The Tower of London has been used for many things since it was first built. Hundreds of years ago it was most famous as a prison where some prisoners were even tortured or killed! Now it is just as famous as the home of the crown jewels which have been kept there since the year 1303.

#### Did you know?

The full name of the Tower of London is actually **Her Majesty's Royal Palace and Fortress**.



This was **traitor's gate**. Many prisoners of the tower were brought there by boat.

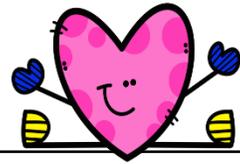
#### Locked up!

The most famous people to be locked up in the Tower of London were **Queen Elizabeth I** and **Guy Fawkes**.

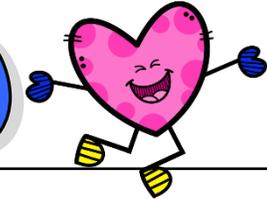
#### Ghosts!

Many people say that the Tower is the most haunted building in England. The most famous ghost is said to be **Anne Boleyn**. She was married to **King Henry VIII** but in 1536 he had her head chopped off!!

It's important that you complete your learning activities each day, but it's even more important that we are taking care of ourselves! We must balance our work with our wellbeing. Over these next two weeks I challenge you to get 'Bingo' by completing all the activities and getting a full house! Score off each activity as you complete it.



# WELLBEING BINGO



Clean your room and keep it tidy. Remember – tidy room, tidy mind! It sounds silly but cleaning can be very therapeutic!



Enjoy the outdoors. Get outside and go for a long walk with your family.



Have a digital detox! Stay away from screens. Spend time with your family instead.



Make a list of everything you want to achieve in life. You could even make a vision board



Listen to your happy playlist and sing along or have a dance!



Start to learn a new skill. Would you believe I'm learning the ukulele?



Bake or cook something yummy.



Help your family in the garden.



Play a board game with your family.



Do some mindfulness colouring or follow an art tutorial



Call or text family and friends.



Exercise



Watch funny animal videos

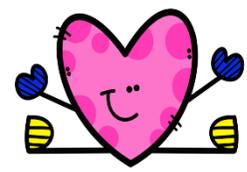


Get lost in a good book.



Cuddle or play with your pet(s).





# MUSIC LISTENING TASK: REMIXES



Week 1: Fresh Prince of Bel-Air

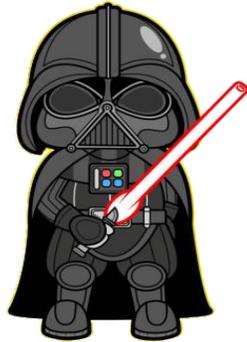
Original: [https://youtu.be/AVbQo3lOC\\_A](https://youtu.be/AVbQo3lOC_A)

Remix: <https://youtu.be/Szs5i7xhj00>

Week 2: Star Wars: The Imperial March

Original: <https://youtu.be/-bzWSJG93P8>

Remix: <https://youtu.be/QU8pe3dhz8s>



## Questions

Why do you think people release remixes?

Which version do you prefer and why?

What similarities do you hear?

What differences do you hear?

What instruments can you hear? Is it the same instruments in both songs or is it different instruments?

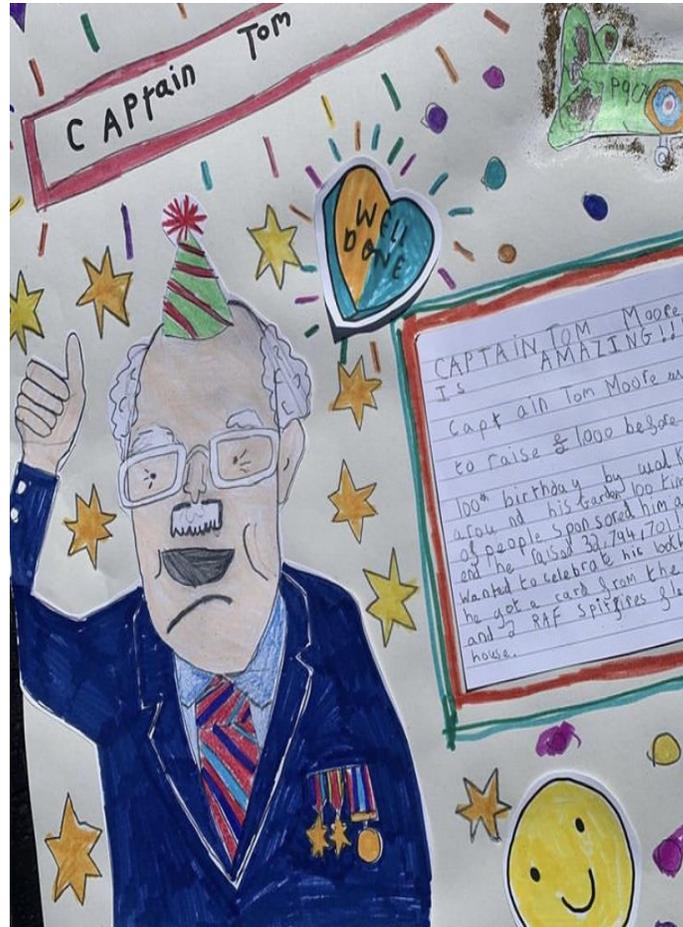
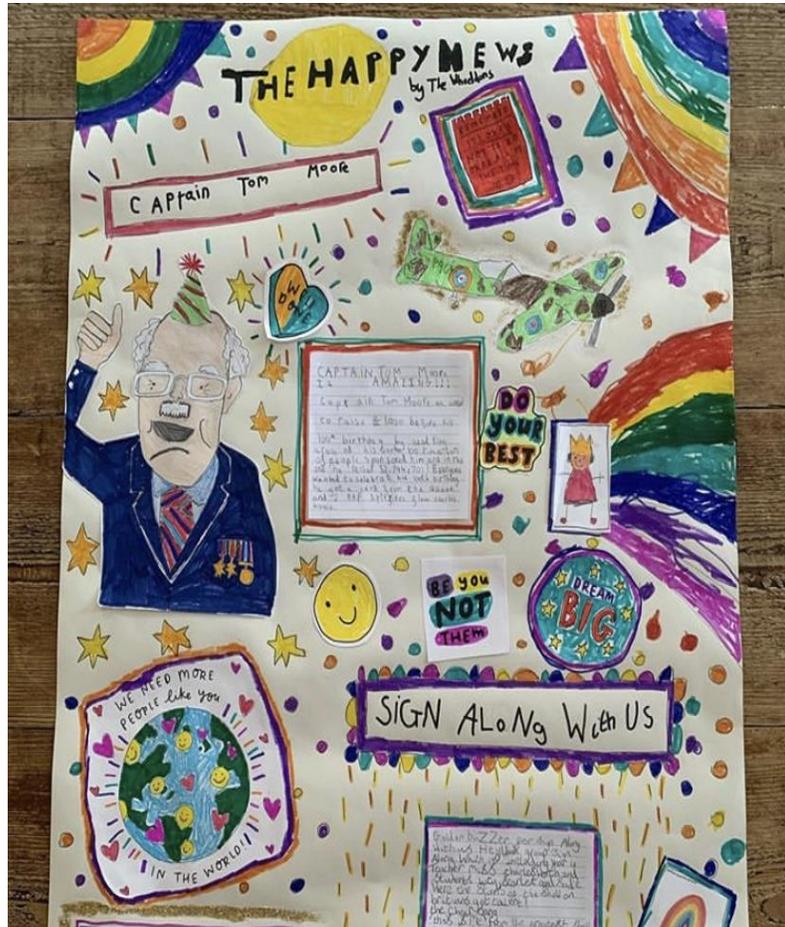
Is the tempo (speed) the same or different in each song?

What genre of music is the original? Is the remix of the same genre?

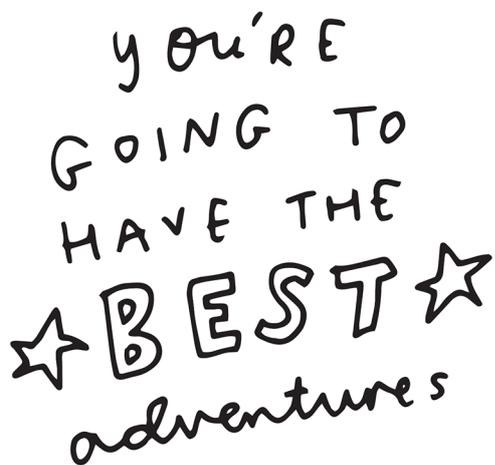
What word would you use to describe each piece of music?

# THE HAPPY NEWSPAPER

Your task is to design a front cover for The Happy Newspaper. Emily shares lots of happy news on her website so check it out if you get a chance. <https://thehappynewspaper.com/> You will get lots of ideas from this website! You must try and find some happy news stories and write about them and illustrate them. I've included some examples below. You don't have to write sentence after sentence, just a brief summary of each piece of happy news accompanied by an illustration. One thing I love about the examples below are how colourful they are. Think about colours and things you could include that we associate with happiness. See the next page for things you could print out and add. I'm excited to see your designs. I know you will produce something that is absolutely amazing!



Colour in or print on colourful paper...



# NATIONAL BOOK TOKEN COMPETITION

<https://www.nationalbooktokens.com/create-a-national-book-token-for-your-class>

National Book Tokens are holding a competition. They're looking for children to create a National Book Token design while you're all learning from home. Whether it's our school badge doodled in ink, a pencil drawing of the entire class, or something completely different, National Book Tokens will choose one child's design to put on a National Book Tokens gift card every week for seven weeks. When schools open up again, the young designer and their classmates will each receive a £10 National Book Token – emblazoned with the winning artwork – to inspire them to choose their next favourite book from their local bookshop.

## How to enter

All entries should be produced on A4 paper using the template on the next page. Visit the link above to complete the entry form to see where to email your scanned template. (If you do not have access to a printer and/or scanner, you can take a photo of the artwork and use a different form instead. All details are on their website)

The competition is open from Wednesday 6th May and the **closing date for entries is Sunday 28th June 2020**. I've included some winning designs from last year.



Hattie, 7



Lenny, 6



Stanley, 12



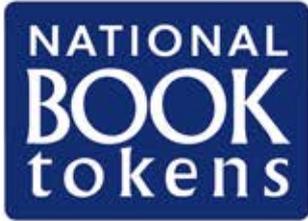
Leo, 11



Molly, 14



Seán, 14

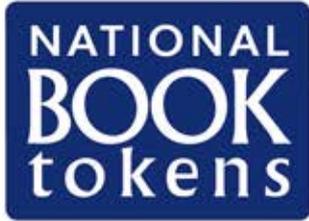


# CREATE A National Book Token DESIGN!

**Win a £10 National Book Token emblazoned  
with your design for every child in class**

**DESIGN YOUR  
NATIONAL BOOK TOKEN  
HERE**

A large, empty rounded rectangle with a thin black border, intended for the user to create their design for the National Book Token.



# CREATE A National Book Token DESIGN!

**Win a £10 National Book Token emblazoned  
with your design for every child in class**

CHILD'S FULL NAME: \_\_\_\_\_

CHILD'S AGE: \_\_\_\_\_

YOUR FULL NAME: \_\_\_\_\_

YOUR RELATIONSHIP TO THE CHILD:

- Teacher
- Parent/guardian
- Other (please specify) \_\_\_\_\_

YOUR EMAIL ADDRESS: \_\_\_\_\_

SCHOOL NAME: \_\_\_\_\_

I give permission for the above-named child to enter the competition  
I accept the terms and conditions\*  
I have completed the entry form on [nationalbooktokens.com/create](http://nationalbooktokens.com/create)

YOUR SIGNATURE: \_\_\_\_\_

# MATHS: A NOTE FROM MISS DICKIE

Over the next two weeks, P5 will continue working on elements of measure.

During the week commencing 1<sup>st</sup> June, I would like the boys and girls to complete the volume tasks included in this pack. There are 3 written tasks in total.

During the week commencing 8<sup>th</sup> June, I would like the boys and girls to complete the area and perimeter tasks included in this pack. There are only 3 written tasks, plus an additional perimeter task at the end.

Additionally, it would be great for the boys and girls to get some hands on experience with volume and capacity. A suitable task could be the following:-

Using a variety of containers, predict which will hold the least to most capacity of water by arranging them in order. Number the containers and predict the volume of water each will hold.

Then, using a measuring jug, accurately measure the volume of water each container holds.

☆ Challenge ☆

Calculate the difference between the prediction and the actual measurement.

Please get in touch if you need any help or support with this. Scroll down for all written tasks.

Answers are also included at the end of this pack



# VOLUME & CAPACITY - WC 01.06.20

Boys and girls, I am available on Teams every single day between the hours of 9 am – 3 pm!

Don't worry if you don't understand something or you need help. Just send me a message on Teams and I will help you with your learning, or you can email me.



## Teaching Point: Volume

VOLUME ? –

It is the amount of SPACE taken up by an object.

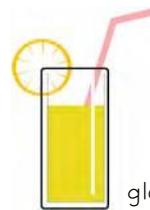


A bath can hold more water than a kettle, therefore the bath has a larger VOLUME.



## Exercise 1

1. Which of these holds **more** liquid when full ?



glass for juice



wine glass

2. Put these shapes in order, starting with the one which holds the **least**.



dishwasher



cooking-pot



microwave

3. Which takes up **less** space - a football or a tennis ball ?



football



tennisball

4. Put these in order, starting with the one which takes up the **most** space.



Van



lorry



motor cycle



Mini

5.  Ten glasses of orange juice can be poured from this carton.  
Six children have one glass **each**.  
How many glasses can **still** be poured from the carton ?

6. Lucy has a bad cough.  
The doctor gave her some medicine. It had to be taken as follows :-  
- one spoonful 3 times a day for 5 days.  
How many spoonfuls will Lucy have taken by the end of the 5 days ?



7.  Mark has to take **2 capsules, 4 times per day** for his fever.  
a. How many capsules does Mark take **each day** ?  
b. The tub hold 24 capsules.  
How many **days** will the tub last Mark ?



8. Shown is part of a recipe for making Gingerbread.  
Use the list of ingredients to answer the following questions :-

**Gingerbread Men**  
4 ounce margarine  
6 ounce black treacle  
2 ounce golden syrup  
2 ounce brown sugar  
Quarter pint of milk  
2 eggs  
1 rounded teaspoon mixed spice



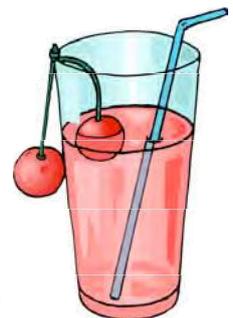
- a How much **syrup** is used?  
b Which piece of cutlery is used to measure out the **mixed spice**?  
c What does the recipe use **less of** - margarine or treacle ? The  
d amount shown above will make **10 gingerbread men**.  
I only want to make five. How many eggs will I need to use ?

9. Chloe's dad makes "cherry mocktail" in a bowl for her 10th birthday party.

The bowl holds **20 glasses** of the mixture.

At the party Chloe and her pals drink a total of **10 glasses** of the juice.

What **fraction** of the cherry mocktail is left after the party ?



# Teaching Point: The Litre/Reading Scales

Capacity is another type of volume that measures liquids. We measure liquids in litres (l) or millilitres (ml).



When you go shopping, many of the liquids you buy come in litres



1 litre of Cola



2 litres of milk



3 litres of ice-cream

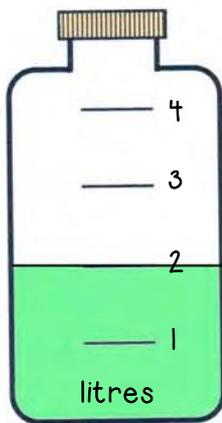


5 litres of paint

## Exercise 2

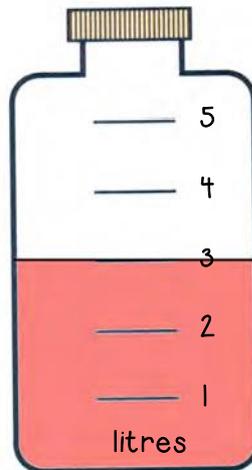
1. How many litres of flavoured liquid are there in each bottle ?

a



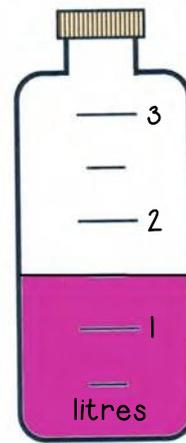
limeade

b



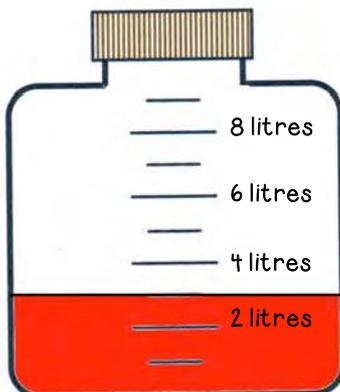
strawberry

c



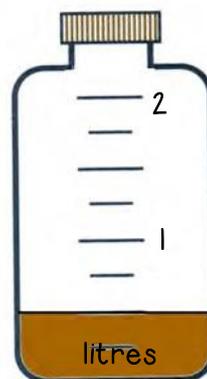
grape

d



cherry

e



chocolate

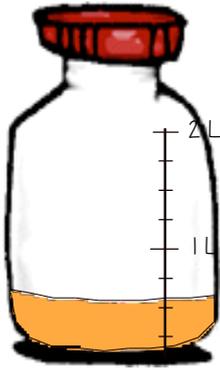
f



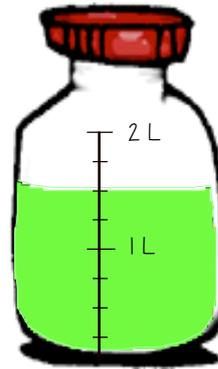
blueberry

2. Write down the **volume** of juice in these two cycle flasks :-

a

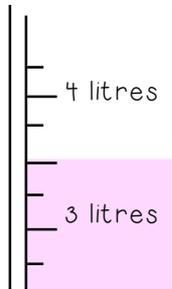


b

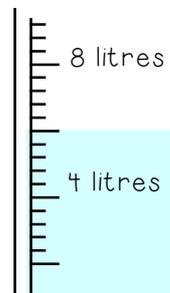


3. Two beakers are filled with coloured water.  
Take a reading of how many litres of water is in each one.

a



b



4. Calum has a **1 litre** carton of apple juice.  
Which of the following usually holds **less** than 1 litre

- a coffee mug
- b wash-hand basin
- c teaspoon
- d egg cup
- e can of lemonade
- f garden pond ?



5. Mr Todd has a **1 litre** bottle of fizzy wine.



Which of the following usually holds **more** than 1 litre :-

- a wine glass
- b jacuzzi
- c baby's bottle
- d oil drum
- e pot for soup
- f a garden pond ?

6. A jug of milk holds **2 litres**. Ciara pours herself half a litre.  
How much is left in the jug ?



7. A glass for juice can hold a **quarter of a litre**.

How many glasses can you fill from a :-

- a 1 litre bottle of cola
- b 2 litre carton of pineapple juice
- c 5 litre keg of orange
- d 10 litre barrel of water ?



8.



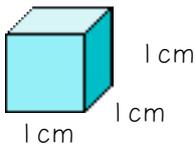
Miss Dickie opens a **two and a half litre** tin of paint.

She pours the paint evenly into **half litre** pots.

How many pots will she need ?

## Teaching Point: The cubic centimetre

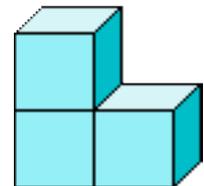
Volume is the amount of space an object takes up.  
It is given in **cubic centimetres**



This is a picture of a CUBE.

Each of its edges is 1 centimetre in length. It is known as - a CUBIC CENTIMETRE.

This solid has a volume of **3 cubic centimetres**.

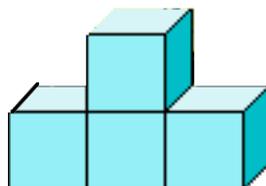


## Exercise 3

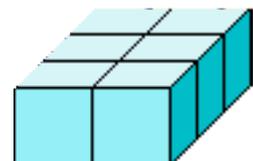
1. Count the number of cubic centimetres in each of these shapes :-



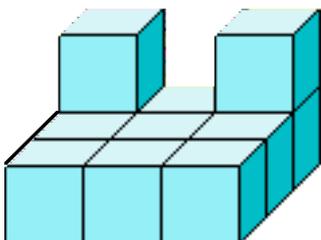
b



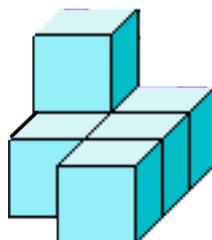
c



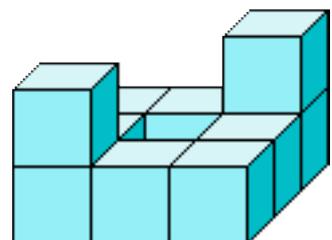
d



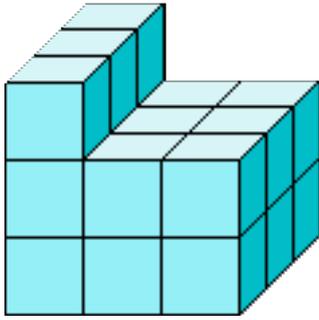
e



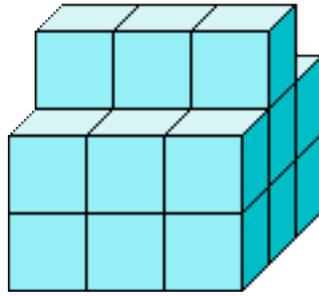
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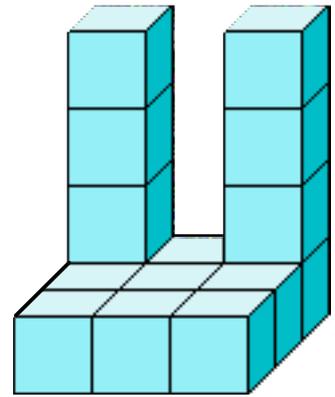
g



h



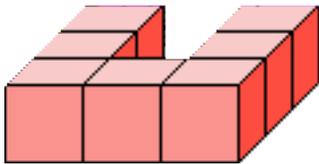
i



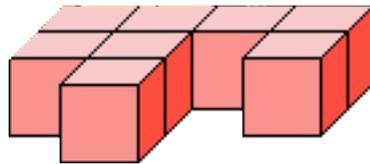
2. Lucy has a box of 10 bricks.  
She builds each of the following shapes.  
How many bricks **out of the 10** is she left with each time?



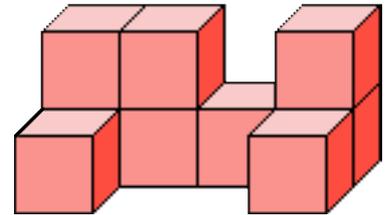
a



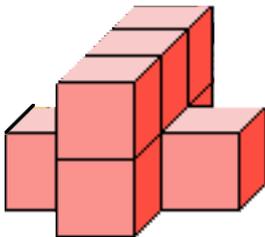
b



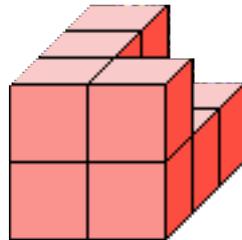
c



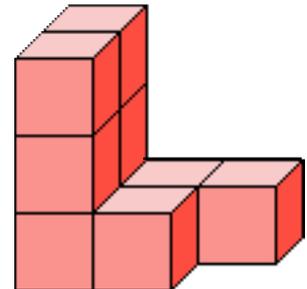
d



e



f

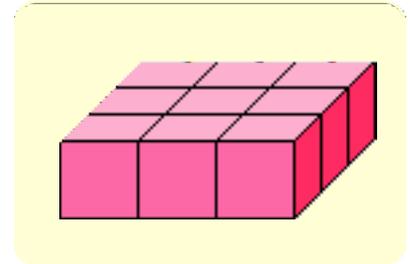
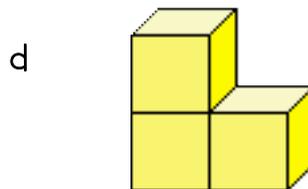
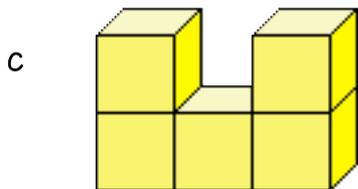
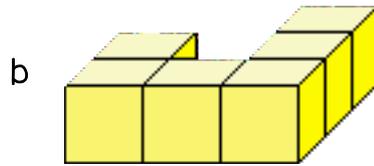
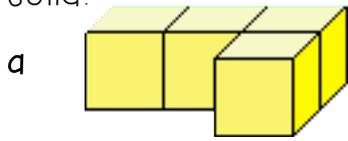


3. Look again at **question 2** and answer these questions :-

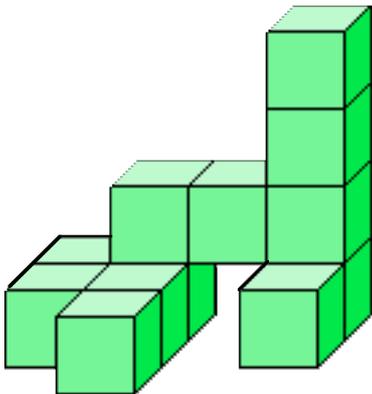
- Which shape has the **largest** volume ?
- Which shape has the **smallest** volume ?
- Which shapes have the **same volume** and what is that volume ?
- How many bricks would Lucy need to build **ALL** the solids without knocking any of them down ?
- Lucy's friend, Mark, only has **16 cubic centimetre** bricks.  
Make a list of the **PAIRS** of the above shapes Mark can make.  
**example** - Nick can make shapes **a** and **b** from his 17 bricks.



4. Choose two yellow solids from the four shown below which can be put together to make the red solid.



5.



Write down the volume of this shape, in cubic centimetres.

## Answers

### Exercise 1

- Juice glass
- cooking pot microwave dish-washer
- tennis ball
- Lorry Van Mini Motor Cycle
- 4
- 15
- a 8 b 3 days
- a 2 oz b teaspoon c margarine d 1 egg
- $\frac{1}{2}$

### Exercise 2

- a 2 L b 3 L c 1.5 L  
d 3 L e  $\frac{1}{2}$  L f  $\frac{1}{3}$  L
- a  $\frac{1}{2}$  L b 1.5 L
- a 3.5 L b 6 L
- coffee mug teaspoon egg cup can of lemonade
- jacuzzi oil drum pot for soup garden pond
- 1.5 L
- a 4
- 5 pots b 8 c 20 d 40

### Exercise 3

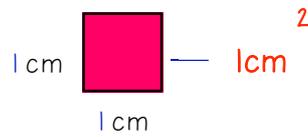
- a 4 b 4 c 6  
d 11 e 6 f 10  
g 21 h 21 i 15
- a 3 b 2 c 1  
d 2 e 0 f 1
- a Shape e b Shape a  
c Shape b = d = 8 and Shape c = f = 9 d 51 cubic cm  
e a & b, a & c, a & d, a & f, b & d

# AREA & PERIMETER- WC 08.06.20

## Teaching Point: Area

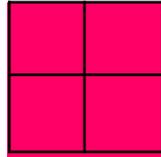
The **area** of a shape is the **AMOUNT OF SPACE IT COVERS**.

The area of a box 1cm by 1cm has an area of : 1 square centimetre.



This is written as :-  $1\text{cm}^2$

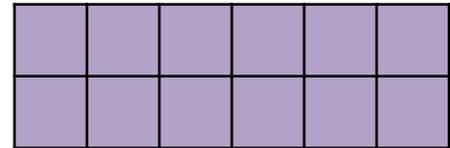
Example :-



This shape has an area of  $4\text{cm}^2$

Exercise 1 Please watch  <https://youtu.be/chK9jYzcltQ>

1. Write down the area ( $\dots\text{cm}^2$ ) of this shape :-

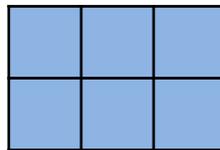


2. Write down the area ( $\dots\text{cm}^2$ ) of each shape below :-

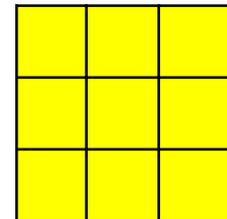
a



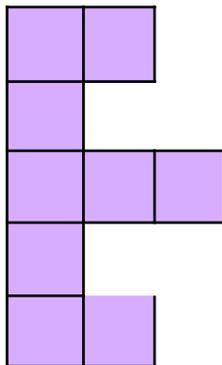
b



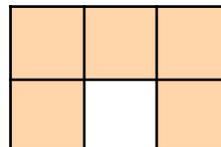
c



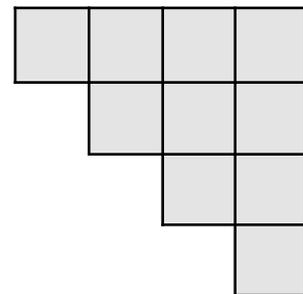
d



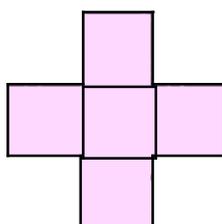
e



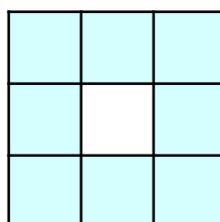
f



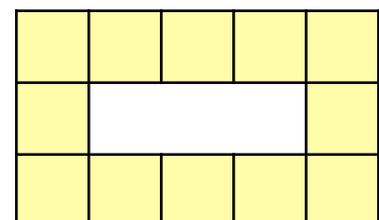
g



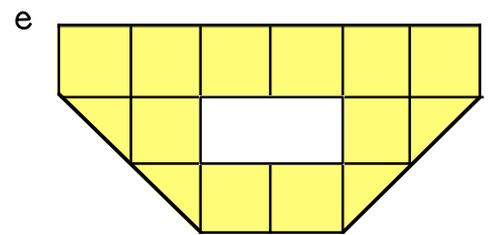
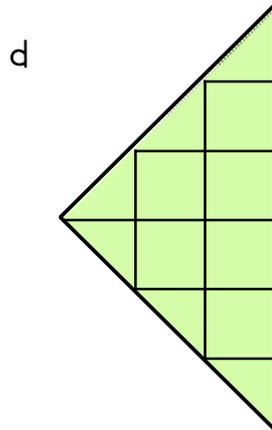
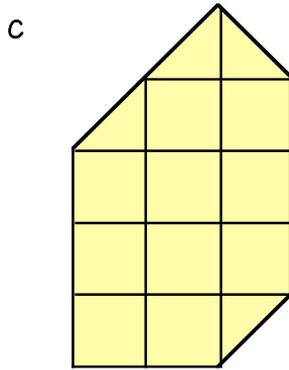
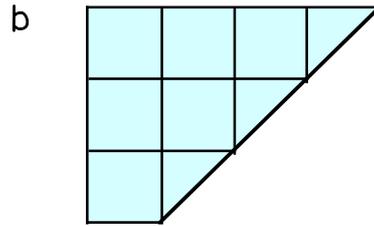
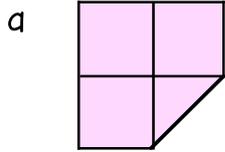
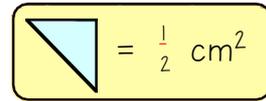
h



i



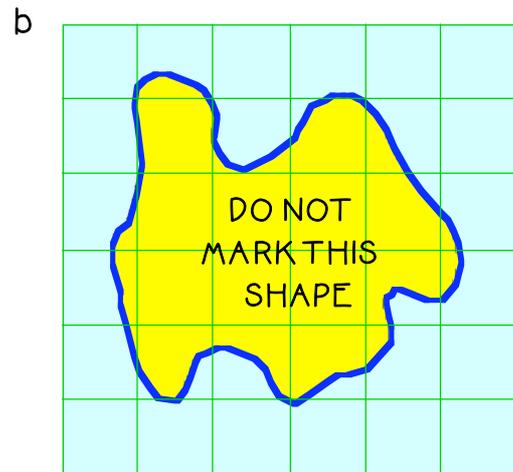
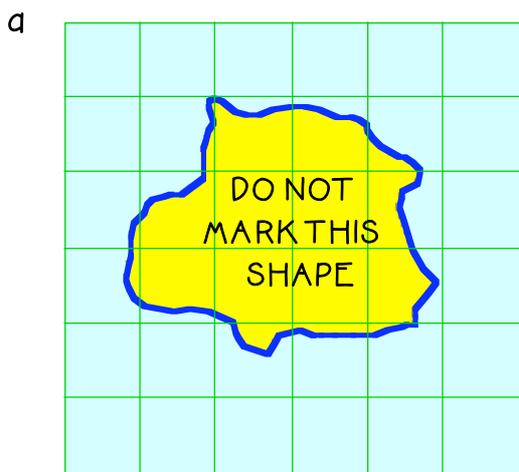
3. Write down the **area** (...**cm<sup>2</sup>**) of each shape below :-

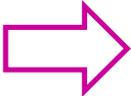


4. Estimate the areas of these shapes. Use this simple rule :-

If **more** than  $\frac{1}{2}$  a box is covered  $\rightarrow$  count it as  $1\text{cm}^2$

If **less** than  $\frac{1}{2}$  a box is covered  $\rightarrow$  do not count it at all.



Please watch  <https://youtu.be/ubm9losyAVw>

## Teaching Point: A rule for finding the area of a rectangle

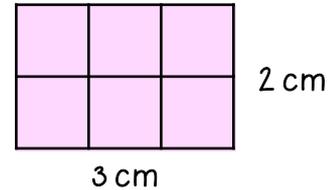
We can find the **area** of a **RECTANGLE** without counting squares on a grid.

We can find the area of a rectangle using a **formula** - another name for a rule.

The rectangle shown measures 3 cm by 2 cm.

Counting squares gives an area of 6 cm<sup>2</sup>.

Also, multiplying 3 by 2 also gives us 6 cm<sup>2</sup>.



The area of any rectangle can be found by :-

**MULTIPLYING THE LENGTH BY THE BREADTH.**

It is easier to write it as

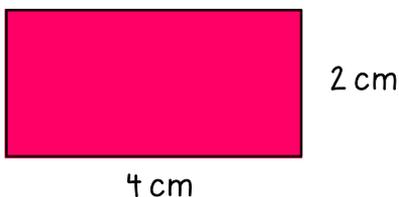
$$\text{Area} = \text{Length} \times \text{Breadth}$$

or  $A = L \times B$



You **must** write down the formula and your calculation when finding the area of a rectangle.

**Example**



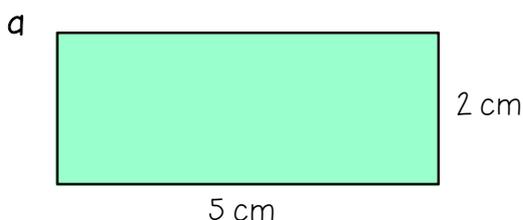
$$A = L \times B$$

$$A = 4 \times 2$$

$$A = \underline{8\text{cm}^2}$$

## Exercise 2

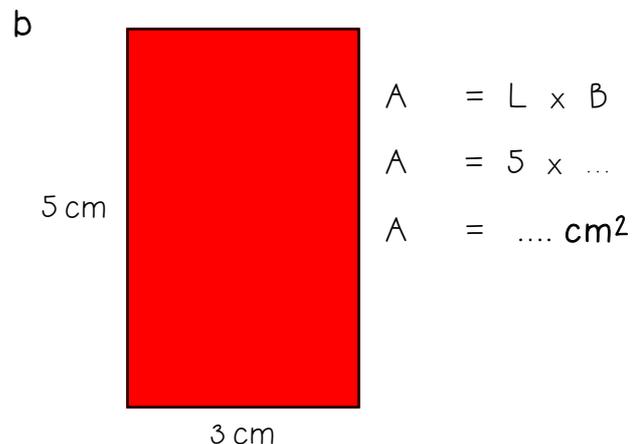
1. Copy each rectangle and complete each example to find the area:-



$$A = L \times B$$

$$A = 5 \times \dots$$

$$A = \dots \text{cm}^2$$



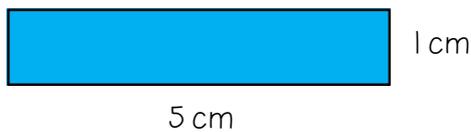
$$A = L \times B$$

$$A = 5 \times \dots$$

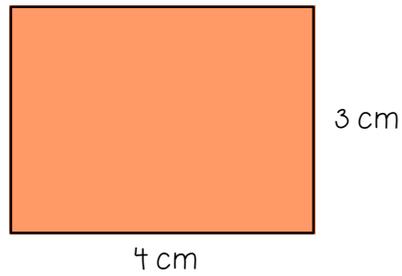
$$A = \dots \text{cm}^2$$

2. Calculate the area (in  $\text{cm}^2$ ) of each of the following rectangles :- (Remember to show your formula and calculation).

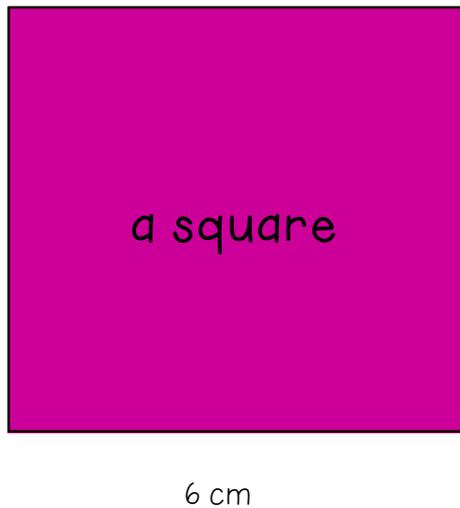
a



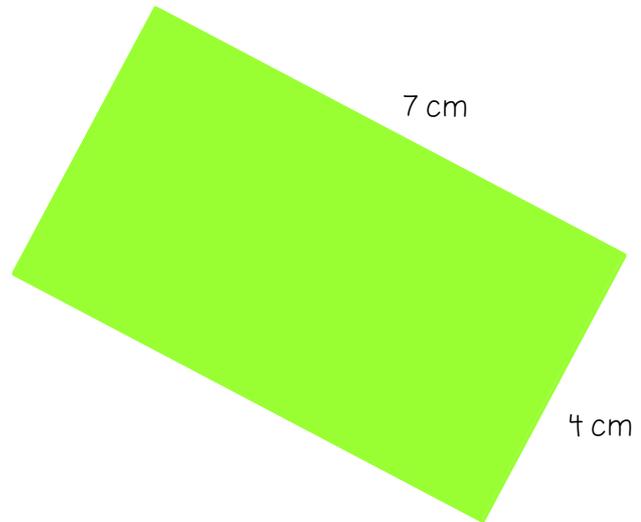
b



c

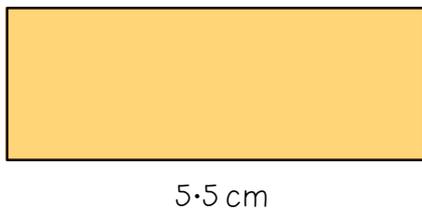


d

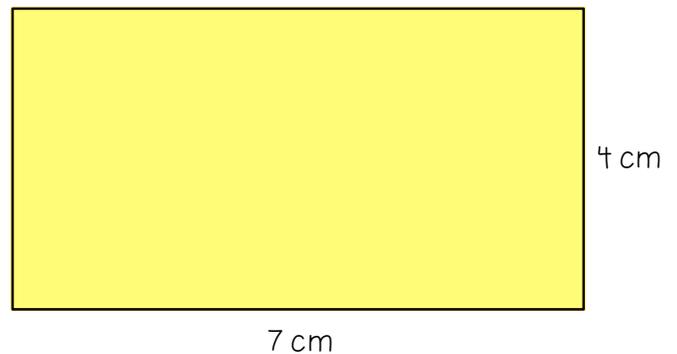


3. Calculate the area of each of the following rectangles :-

a



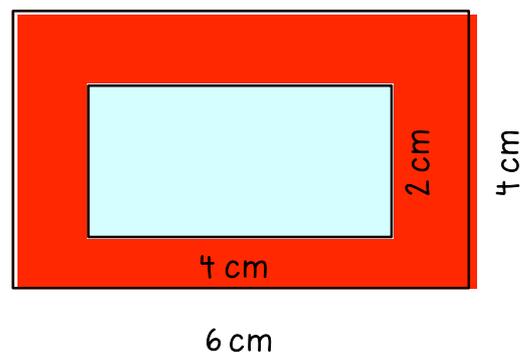
b



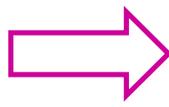
4. A piece of **red** rectangular card measures 6 centimetres by 4 centimetres.

A **blue** rectangle measuring 4 cm by 2 cm is cut from the card.

- Find the **total area** of the **red** card.
- Find the **area** of the **blue** rectangle.
- Find the **red shaded area**.



Please watch  
both tutorials



<https://youtu.be/d42auMOJXkU>

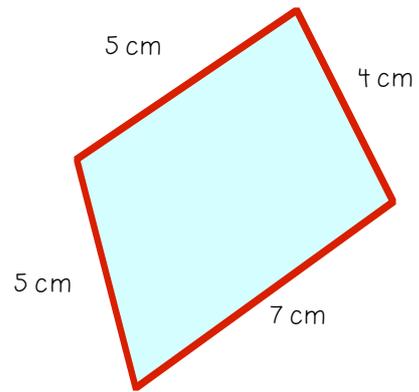
<https://youtu.be/Hy5PRHxGrFw>

## Teaching Point: Perimeter

The **Perimeter** of a shape is :-  
"the total distance around its outside".

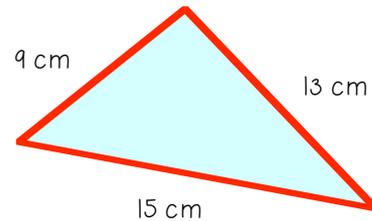
Example :-

$$\begin{aligned}\text{Perimeter} &= (5 + 5 + 7 + 4) \text{ cm} \\ &= 21 \text{ cm}\end{aligned}$$



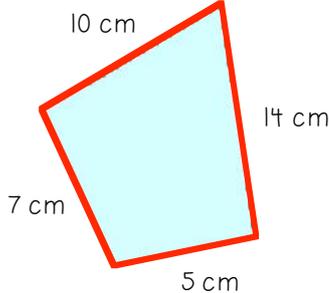
### Exercise 3

1. Calculate the perimeter of this triangle.

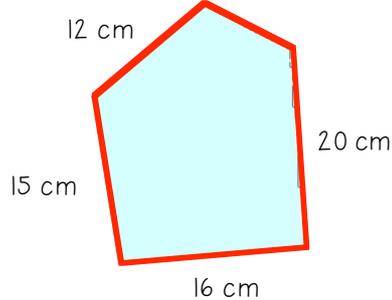


2. Calculate the perimeter of each of the following shapes :-

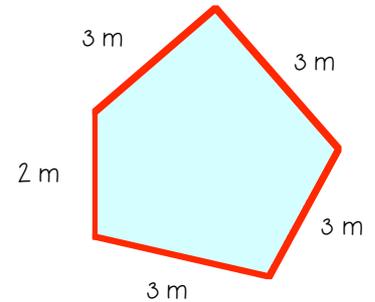
a



b



c



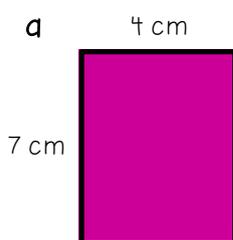
3. Calculate the perimeter of this rectangle.

(note - the answer is **NOT** 31 cm)

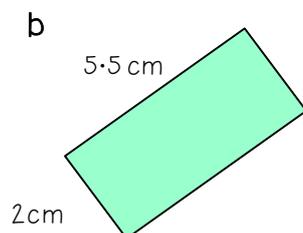


4. Calculate the perimeter of each of these rectangles and squares :-

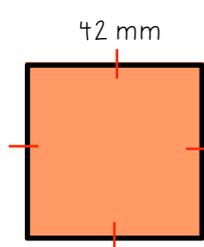
a



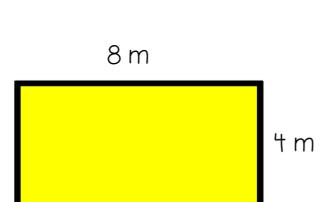
b



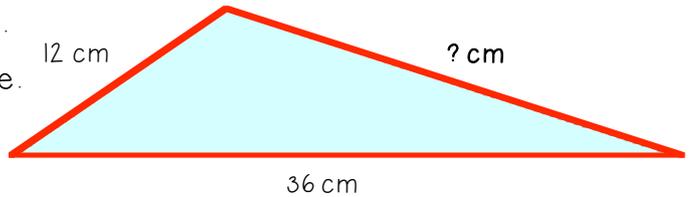
c



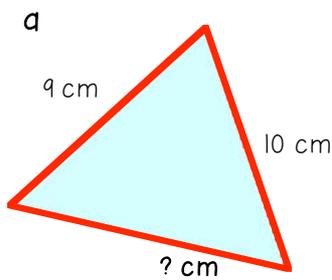
d



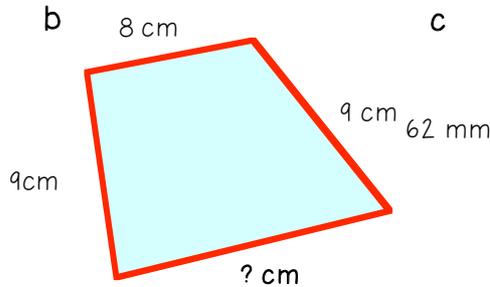
5. This triangle has a perimeter of 68 cm.  
Calculate the length of the missing side.  
(12 cm + 36 cm + ? cm = 68 cm)



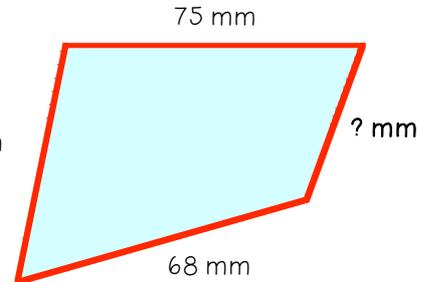
6. Calculate the length of the missing side in these shapes :-



perimeter = 30 cm

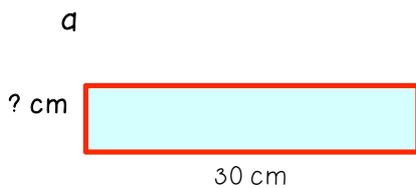


perimeter = 40 cm

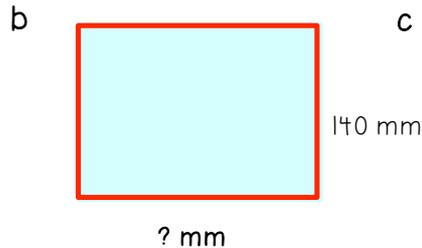


perimeter = 242 mm

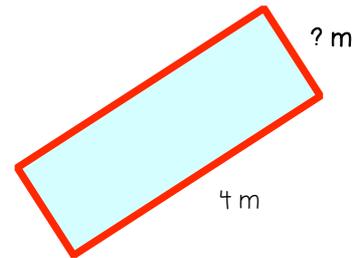
7. Calculate the size of the missing side in the following rectangles :-



perimeter = 76 cm



perimeter = 600 mm



perimeter = 11 m

CLUE



A rectangle has 2 pairs of sides that are equal. So have a look at 7a. One side is 30 cm so the side that is parallel to that must have also have a side of 30 cm.  $30 \text{ cm} + 30 \text{ cm} = 60 \text{ cm}$ . Take that length away from 76 cm.  $76 \text{ cm} - 60 \text{ cm} = ?$  You're now left with the total size of two sides. What do you need to do find the length of one side? That's right! You need to divide by 2!

## Answers for Area and Perimeter

### Exercise 1

- 12 cm<sup>2</sup>
- a 3 cm<sup>2</sup>    b 6 cm<sup>2</sup>    c 9 cm<sup>2</sup>  
d 9 cm<sup>2</sup>    e 5 cm<sup>2</sup>    f 10 cm<sup>2</sup>  
g 4 cm<sup>2</sup>    h 8 cm<sup>2</sup>    i 12 cm<sup>2</sup>
- a 3.5 cm<sup>2</sup>    b 7.5 cm<sup>2</sup>    c 12 cm<sup>2</sup>  
d 9 cm<sup>2</sup>    e 12 cm<sup>2</sup>
- a 10 cm<sup>2</sup>    b 13 cm<sup>2</sup>

### Exercise 2

- a 10 cm<sup>2</sup>    b 15 cm<sup>2</sup>
- a 5 cm<sup>2</sup>    b 12 cm<sup>2</sup>    c 36 cm<sup>2</sup>    d 28 cm<sup>2</sup>
- a 11 cm<sup>2</sup>    b 30 cm<sup>2</sup>
- a 24 cm<sup>2</sup>    b 8 cm<sup>2</sup>    c 16 cm<sup>2</sup>

### Exercise 3

- 37 cm
- a 36 cm    b 63 cm    c 14 m
- 62 cm
- a 22 cm    b 15 cm    d 168 mm    e 24 m
- 20 cm
- a 11 cm    b 14 cm    c 37 mm
- a 8 cm    b 160 mm    c 1.5 m

# Calculating Perimeter

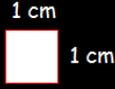
Bronze example

Silver example

Gold example

**Examples...**

Calculate the perimeter of the shape below...



1 cm 1 cm

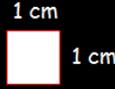


**\*\*Add up all the sides!\*\***

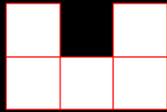
Perimeter =  $3 + 2 + 3 + 2 = 10$  cm

**Examples...**

Calculate the perimeter of the shape below...



1 cm 1 cm

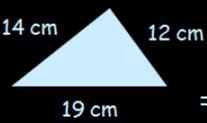


**\*\*Add up all the sides!\*\***

Perimeter =  $1 + 1 + 1 + 1 + 1 + 1 + 2 + 3 + 2 = 12$  cm

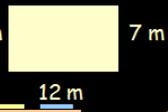
**Examples...**

Calculate the perimeter of the following shapes...



14 cm 12 cm 19 cm

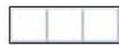
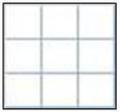
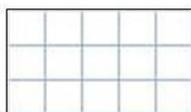
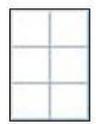
Perimeter =  $14 + 12 + 19 = 45$  cm

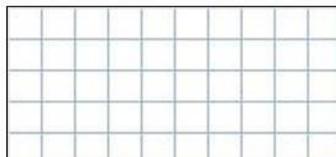


Perimeter =  $7 + 12 + 7 + 12 = 38$  m

## Bronze Questions

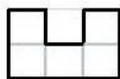
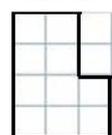
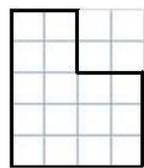
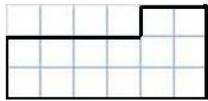
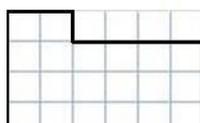
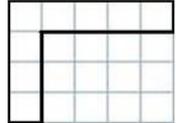
Calculate the perimeter of the following shapes...



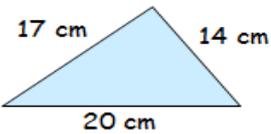
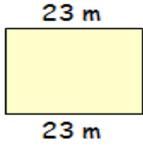
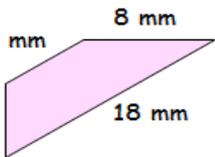
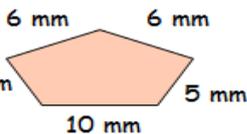
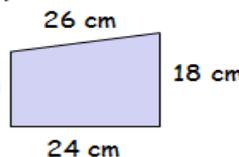
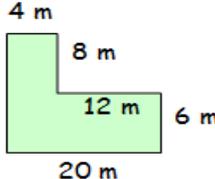
## Silver Questions

Calculate the perimeter of the following shapes...

## Gold Questions

Calculate these perimeters...

### Key Facts/Formulae:

**\*\*To calculate the perimeter you add up all the sides!\*\***



Bronze Answers

- |          |          |
|----------|----------|
| 1. 8 cm  | 2. 12 cm |
| 3. 16 cm | 4. 10 cm |
| 5. 20 cm | 6. 30 cm |

Silver Answers

- |          |          |
|----------|----------|
| 1. 12 cm | 2. 14 cm |
| 3. 18 cm | 4. 18 cm |
| 5. 20 cm | 6. 18 cm |

Gold Answers

- |          |          |
|----------|----------|
| 1. 51 cm | 2. 70 m  |
| 3. 37 mm | 4. 32 mm |
| 5. 83 cm | 6. 72 m  |

# MCDONALD'S MENU

MATHS PROBLEM SOLVING

## MCDONALD'S BURGERS

## MCDONALD'S HAPPY MEAL

Big Mac £3.20

Quarter Pounder £3.10

Double Cheeseburger £1.50

Bacon Double  
Cheeseburger £2.00

Cheeseburger £0.99

Hamburger £0.80

Chicken Legend £3.90

McChicken Sandwich £3.20

Fillet-O-Fish £3.00

Vegetable Deluxe £3.00



BUY 2  
CHEESEBURGERS,  
GET 1 FREE



Hamburger £2.80

Cheeseburger £2.80

Chicken Nuggets £2.70

Grilled Chicken Wrap £2.70

Crispy Chicken Wrap £2.70

Veggie Wrap £2.50

Chicken Legend £4.00

McChicken Sandwich £3.20

Fillet-O-Fish £2.00

Vegetable Deluxe £2.10

Fish Fingers £1.80



## MCDONALD'S CHICKEN

Chicken Selects (3pcs)	£3.50
Chicken Selects (5pcs)	£4.50
Chicken McNuggets (6pcs)	£3.20
Chicken McNuggets (9pcs)	£3.60
Chicken McNuggets Share Box (20pcs)	£5.10
Cheeseburger	£0.99

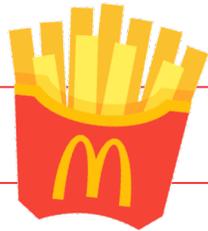


## MCDONALD'S DESSERTS

Oreo McFlurry	£0.99
Smarties McFlurry	£0.99
Dairy Milk McFlurry	£0.99
Ice Cream Cone	£0.75
Chocolate Muffin	£1.50
Hot Apple Pie	£0.99

## MCDONALD'S FRIES

Small	£0.99
Medium	£1.30
Large	£1.60



## MCDONALD'S DRINKS

	Small	Medium	Large
Coca Cola	£1.20	£1.50	£2.10
Chocolate Milkshake	£1.80	£2.10	£3.40
Water	£0.75		



ALL MILKSHAKES  
HALF PRICE  
ON SUNDAYS

@MISS\_S\_SAYS



## MILD CHALLENGE

1. Ben and his family are going to McDonalds tonight for dinner. It takes 30mins to drive there. **If they leave at 5.45pm, what time will they arrive?**
2. Dad orders a Big Mac with Large Fries. **How much does his meal cost?**
3. Mum orders a Hamburger and Medium Fries. **How much does her meal cost?**
4. Ben orders a Chicken Nugget Happy Meal. **What is the total price of our bill?**
5. They sit down with their food at 6.30pm. It takes them 1 hour to eat their food. **What time do they finish eating at?**
6. Mum wants dessert, but Dad doesn't want anything. She orders 2 Chocolate Muffins. **How much do they cost altogether?**
7. They leave the restaurant at 7.45pm. **What time do they arrive home?**



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## HOT CHALLENGE

1. Ben and his family go to McDonalds on Friday for dinner. There's his mum, dad and twin sisters. Then there's his friend Jack. **How many of them are going?**
2. They leave the house at 5.05pm and it takes them 45 minutes to get there. **What time will they arrive at?**
3. Dad wants 3 Cheeseburgers, Medium Fries and a Medium Coca Cola. **How much does his meal cost?**
4. Ben, Jack and his twin sisters all order a Happy Meal. Ben and Jack want Cheeseburgers and the twins want Chicken Nuggets and a Crispy Chicken Wrap. **How much do their meals cost altogether?**
5. When they are finished eating, they order dessert. What will be cheaper; **2 McFlurry's, 2 Cones and a Medium Chocolate Milkshake or 3 Small Chocolate Milkshakes and 2 McFlurry's?** They have the cheapest option.
6. If they paid with a £20 and a £5 note. **Would they have enough? If yes, how much change do they get?**
7. Dad says all the children can split the change. **Can they split it equally? How much do they get each?**



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## FLAMIN' HOT CHALLENGE

1. Ben is having his birthday party at McDonalds on Sunday. He invites 4 of his closest friends along with his mum, gran and twin cousins. **How many people will be there?**
2. They leave at 5.10pm and it takes them 35 minutes to get there. They have to stop for petrol which takes an extra 12 minutes. **Will they arrive before 6pm? What time will they get there?**
3. Mum decides to order the drinks first. The adults have a Water each and the children all want a Small Chocolate Milkshake. **How much do the drinks cost altogether?**
4. For their mains they order; 1 Big Mac, 1 Chicken Legend, 3 Hamburger Happy Meals, 2 Chicken Nugget Happy Meals and 2 Veggie Wrap Happy Meals. **How much will their mains cost in total?**
5. Mum and Gran forgot to order sides. They both want Medium Fries. **How much more will their total be?**
6. They don't have time for dessert as they are going to the cinema. **How much is their meal altogether?**
7. List the **least amount** of notes and coins they could use to pay for their meal.
8. They decide to leave a 10% tip. **How much is that?**



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