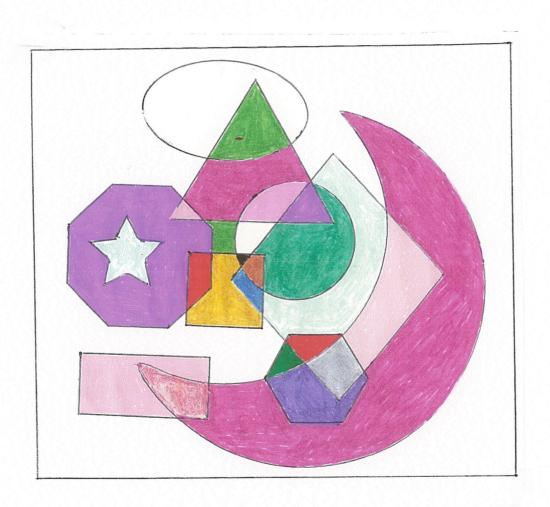
BRAIN EXERCISES

CREATING NON DOMINANT HAND DESIGNS USING OVERLAPPING MATHEMATICAL SHAPES



By

GARETH ROWLANDS

Colourful designs to improve memory retention

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Neurobic exercises

A neurobic exercises project sidesteps and overcomes COVID-19

Words ALAN DAVIES

he dictionary describes neurobics as activities or mental (cognitive) tasks that stimulate the brain and help prevent memory loss.

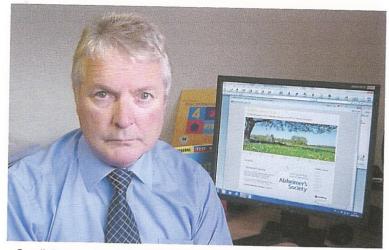
Using his website www. battledementia.co.uk, a St Albans mathematician is winning the battle against COVID-19 by providing care homes in Hertfordshire and care centres worldwide with his brain stimulating neurobic exercises.

Before the outbreak of the pandemic, Gareth Rowlands, a campaigner for people living with memory loss such as Alzheimer's disease and dementia, was able to organise workshops at care homes, dementia cafes and doctors' surgeries throughout the county.

He decided to combat the visiting restrictions posed by COVID-19 by using his website.

According to recent and ongoing research, neurobic exercises stimulate the brain, improve one's memory and enhance one's quality of life.

The brain loves a challenge, especially a change in routine.
On the opening page of his



Gareth Rowlands, a mathematician and a personal campaigner for people living with memory loss such as Alzheimer's disease and dementia

website, Gareth's resource booklet 'Your Brain Matters', which contains hundreds of memory boosting exercises, can be downloaded free of charge.

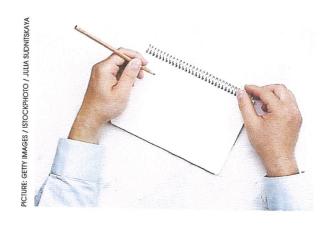
The brain exercises, which act like a workout for the brain, involve using one's non-dominant hand to write symbols, letters, words, and sentences including drawing simple diagrams.

Attempting the exercises daily for 10 to 15 minutes can reap the benefits of improved memory,

alertness, greater awareness and happier moods, which in turn enhance the quality of life.

Other examples of neurobic exercises include using one's non-dominant hand while eating, cleaning one's teeth, doing upbuttons while dressing, combing or brushing one's hair, opening and shutting doors and containers, in addition to using two of one's senses at the same time, such as listening to music whilst drawing a picture.

SIMPLE BRAIN EXERCISES TO TRY



- Firstly, if you are right handed, your usual hand is your right hand. If you are right handed, your unusual hand is your left hand. If you are left handed, your usual hand is your left hand. If you are left handed, your unusual hand is your right hand. All you need is a pencil and paper for this exercise. Have fun!
- Write down your first name with your usual hand.
 Write down your name with your unusual hand.
 Write down your name backwards
- with your usual hand. Write down your name backwards with your unusual hand.
- Make a rough sketch of the letter A with your usual hand.
 Make a rough sketch of the letter with your unusual hand.
- Write down the number 564 with your usual hand.
 Write down the number with your unusual hand.
 Write down the number backwards with your usual hand.
 Write down the number backwards with your unusual hand.

Neurobic Exercise Workshop

On Monday 15 May Gareth Rowlands led a fantastic workshop to coincide with Dementia Action Week 2023.



During the workshop, attendees were able to boost their memory through an energising and vivid workshop delivered by Gareth, a local mathematician.

Gareth stresses the importance of both mental and physical exercises, to stem the onset of the disease and dementia.

We hope all that attended are able to share these exercises with others.

of fruit and vegetables a day to lower the mends eating a minimum of 400 grams heart disease, stroke and some types of risk of serious health problems such as THE Word Health Organisation recom-

a day to prevent tooth decay. example brushing our teeth at least once number of other personal routines for our bodies fit and healthy as well as a But are we looking after our brain? Regular physical exercises can keep

think, feel and say. The human brain has been described as It is responsible for everything we do, the most complex object in the universe The brain makes you who you are

of the human body. activities. The brain is the crown jewel and enables you to go about your daily Gareth Rowlands, a St Albans

an ideal workout for the brain. daily for about fifteen minutes. The stimulate the brain and prevent mathematician, has recently compiled which challenge the brain and provide exercises are called Neurobic exercises memory loss especially if attempted ready made exercises sessions which On the same page there are two other

regularly prevents the onset of of different part of the brain confirms that attempting Neurobic exercises Alzheimer's disease and dementia. Ongoing research into the functions

provide the sufficient challenges and crosswords, scrabble and Sudoku are new surprises that the brain craves for themselves stimulating they do not Although routine puzzles such as

Not only are the exercises easy

Gareth Rowlands, a St daily sessions which stimulate the brain and prevent memory recently compiled exercise Albans mathematician, has technique is explained... loss, Here his pioneering new especially if attempted for about 15 minutes.

and convenient to access in his new write similar exercises to suit peoples resource they provide considerable different needs and circumstances. fun and entertainment and it is easy to

of his website www.battledementia. co.uk you can download free the daily your fingertips' in his resource booklet 'Neurobics at Neurobic exercises sessions described By visiting the opening HOME page

amusing way providing fun and can numbers, proverbs and diagrams in an the use of your non dominant hand and Matters' and At Home With Neurobics memory resource booklets 'Our Brain involve the use of words, sentences, The Neurobic exercises emphasise

groups or as a family. opportunity using your non dominant called Non Dom Designs which gives an There is a section in the booklet

be attempted individually, in pairs, in

has called Non Dom designs.

workshops throughout Hertfordshire resources cafes using his own Neurobic exercises by visiting care homes and dementia Gareth organizes Neurobic exercises

your fingertips' will help carers new resource booklet 'Neurobics at people living with memory loss to battle Alzheimer's disease and dementia. His He has pioneered the use of Neurobic

people destroying lives globally. seventh leading cause of death among every year. Dementia is currently the living with dementia worldwide and of disability and dependency among there are nearly 10 million new cases debilitating disease affecting so many all diseases and one of the major causes There are currently 55 million people

will leave no stone unturned to fight the

Alzheimer's disease and dementia and

exercises to combat the onset of

affect the brain range of progressive conditions that Dementia is an umbrella term for a

their ability to remember, think and properly in specific areas, affecting person's brain cells (neurones) working Each type of dementia stops a

speak. symptoms - such as memory loss, and understanding - that get worse over confusion, and problems with speech "dementia" to describe common Doctors typically use the word

make artistic designs which the author hand to copy, draw and colour shapes to

He maintains his efforts will help



Gareth Rowlands

3.

Author celebrates writing more than 50 mathematics books

Retired teacher has written for schools as well as to prevent Alzheimer's disease

s children prepare to return to school for a new academic year, an author from St Albans is celebrating publishing 50 mathematics books to help people learn.

Gareth Rowlands is a retired Mathematics teacher and lecturer who also worked as an education officer in Kenya for 14

years.

He has specially written for primary schools, secondary schools and colleges not only in the UK but all around the world, as well as campaigning to promote awareness of the role the subject plays in combatting Alzheimers disease and memory loss.

"Mathematics books can be a joy to both students and teachers alike," Gareth says. "Using colourful illustrations, clearly drawn diagrams, numerous examples with plenty of exercises along with enjoyable practical activities relating the subject to students' day to day experiences can make learning the subject a lot easier to understand and use.

"These are the vital aspects I have included. Mathematics being such an important subject in all our lives should be an enjoyable subject to learn."

Gareth also explains how maths has a part to play in the fight against Alzheimer's disease and memory loss.

He recently gave a talk on the value of mental and physical exercises in slowing down the onset of Alzheimer's disease and memory loss at Parkfield Medical Centre in Potters Bar.

He has also created the website battledementia.co.uk which he says is his "personal crusade to champion the Alzheimer's cause"

The main aims of the site are to "suggest an appropriate approach to the use of activities that could be attempted whilst caring for people suffering from dementia in an effort to improve their quality of life" and to "offer some valuable and much needed



Gareth Rowlands and below a selection of his books on display

support to those who care for people suffering from dementia day-in, day-out and at night in their own homes as husbands or wives, as family members or as the dedicated, hard-working carers in residential and nursing care homes".

Gareth adds: "It is aimed at supporting hard working carers and to create more and more awareness of Alzheimer's disease and dementia here in the UK and internationally.

"I have already donated my activity resources to Alzheimer's organisations and residential care homes in the UK, Canada, Mauritius, Cyprus and Pakistan having been interviewed on BBC Three Counties Radio, Mauritius TV and Cyprus radio.

"Most recently, I arranged the delivery of my activity booklets to the Kenya Alzheimer's Society. I am pleased that my web site continues to gain interest internationally."



Teacher shares ways to slow memory loss



Gareth Rowlands runs neurobic exercise workshops to help people with memory loss

By Daisy Smith

A MATHEMATICIAN has shared some of the brain exercises he uses to help people with dementia.

Gareth Rowlands, from St Albans, runs memory workshops at dementia cafés and care homes in Hertfordshire.

He became passionate about helping those with memory loss after he visited a care home which his wife ran in Barnet.

The retired teacher decided to spend his spare time organising an activity programme for the residents at the care home and began teaching them neurobic exercises he had learned throughout his career.

These include using your dominant and then non-dominant hand to write words and draw diagrams, making simple changes to your routine such as using your non-dominant hand to brush your teeth or to open doors and drawing a picture while listening to music

Mr Rowlands said: "Combining two or more senses sends a message to the brain and stimulates it as it realises the challenge of the different routine."

He has created a list of 100 neurobic exercises and hopes they will eventually be used by people across the country.

Mr Rowlands said: "There has been ongoing research at Kings College in London that says attempting these exercises and training your brain for short periods of time can have many benefits.

"This includes less stress and positive moods. If you do exercises daily for 10 to 15 minutes for about a month you can notice a change in your memory. You need to think of your brain as a muscle which needs exercise."

The former teacher explained how he came to start his memory workshops. He said: "It was sad seeing residents at the care home doing nothing at all. The care home invited me to organise an activity programme and they reaped considerable benefits.

"I now organise workshops at various venues including dementia cafés and doctors' surgeries to help people who are suffering from memory loss. "There is a lot to do in terms of helping people, but my mission really is to persevere and leave no stone unturned to help people in the prevention of memory loss."

He added: "When I was doing a neurobic session recently at a dementia café at Welwyn Garden City I asked people if they found any benefits from the exercises.

"They said there was a slight improvement in the memory, were less stressed, they had positive moods, increased motivation and faster thinking."

The former teacher passes on his exercises to others in the community as he believes in their benefits not just for people suffering with memory loss but also for everyday memory.

He said: "One of my big ambitions is to get this to snowball to not only spread throughout Hertfordshire and make an impression on the county but to make a national impact.

"People can use my ideas to benefit the people who are suffering from memory loss and hopefully be used to catch diseases such Alzheimer's early."

Introduction to this resource

In this resource on the applications of Neurobic exercises in art and design, you will be using your non dominant hand along with various drawing instruments to create your own attractive designs by colouring in spaces created when geometrical shapes overlap each other.

The geometrical shapes you will draw are commonly seen in the world around us especially when you look at the architecture of some of our buildings and homes or even the type of packaging used for the various items we buy at shops and supermarkets.

Before you start looking at the various design examples created using two or more overlapping mathematical shapes, it would be very helpful for you if you could spare some time to look at the 'guide to Neurobic exercises' that I have compiled as this would then help you when attempting the exercises in this resource.

When you have completed some of your designs you may wish to place two or more of them together to create a framed design which you can then display. An example is shown in the Examples section.

By visiting the author's website <u>www.battledementia.co.uk</u> you will be able to find more resources on the uses of Neurobic exercises to combat memory loss. These resources can be downloaded free of charge.

Neurobic exercises are designed to stimulate the brain and improve memory retention. The exercises support the growth of new brain cells (neurons) and in turn promote the nerve cells 'to send messages to each other'.

An active brain is a healthy brain and our brains enjoy tackling challenging exercises.

According to ongoing research, Neurobic exercises help delay memory loss and keep the mind working 'better for longer'.

By creating the colourful non dominant hand mathematical designs you are challenging your brain by using your non dominant hand to draw and colour and at the same time you are rewarded with a beautiful design you have enjoyed creating.

Materials required

Note:

You will no doubt find that a geometric shapes stencil would most helpful in the drawing of the mathematical shapes especially the circles and the ellipses. These stencils can be obtained from most stationery outlets and on line from Amazon and other stationery providers.

When selecting a stencil it is useful to obtain a sturdy one as flimsy stencils tend to move around when drawing.

For drawing circles you may also use circular objects to draw round or a geometric compass with a sharp pencil. Some people may also wish to use tracing paper to copy and make drawings.

Other materials:

A4 white paper pens and pencils (HB) Frames for display of designs

Hello!

















Welcome to your neurobic exercise guide!

All you need is a pen and paper and you are on your way!

The contents of this guide on neurobic exercises have been provided by Gareth Rowlands, a campaigner for people living with memory loss. A resource booklet 'Our Brain Matters' can be found on the opening page of his web site www.battledementia.co.uk. If you would like to practice more similar exercises to this guide, please visit his website.

His resource 'Our Brain Matters' is made up of a variety of different neurobic exercises, divided into chapters. Most of the exercises are graded starting with easy exercises leading on to more difficult ones.

It is suggested that carers using his resource at home, in residential care and nursing homes and elsewhere will be able to select exercises for their residents to suit their circumstances at the time. The exercise can be attempted by themselves, in pairs or in groups as a family.









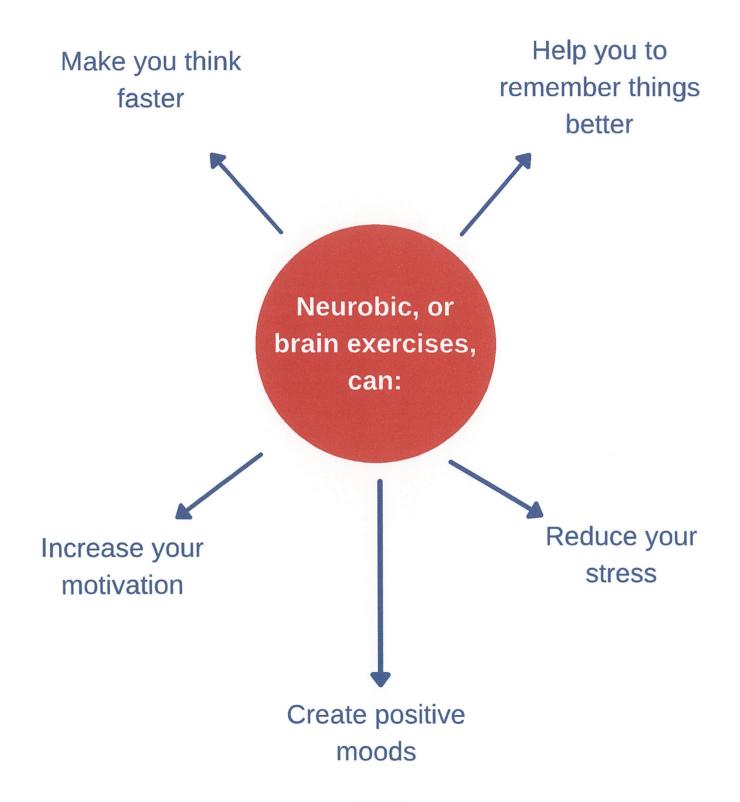








Benefits of neurobic exercises



NOTE:

For best results, neurobic exercises should be attempted for 10-15 minutes daily.

Writing exercises

Guide on how to do these exercises

If you're right handed:

L = Unusual hand



R = Usual hand



If you're left handed:

L = Usual hand



R = Unusual hand



Writing Exercises

You can make up your own exercises like the below using different names, letters, shapes and numbers.

Exercise 1:

- · Write down your first name with your usual hand.
- Write down your name with your unusual hand.
- · Write down your name backwards with your usual hand.
- Write down your name backwards with your unusual hand.

Exercise 2:

- Make a rough sketch of this letter with your usual hand.
- Make a rough sketch of the letter with your unusual hand.



Exercise 3:

- Write down this number with your usual hand.
- Write down the number with your unusual hand.
- Write down the number backwards with your usual hand.
- Write down the number backwards with your unusual hand.



Day-to-day exercises

Just as too much sitting is bad for the body, too much day-in, day-out routine is bad for the brain. The brain needs to be stimulated constantly.

Try these routine tasks using your non dominant hand and bring your brain alive:

- · Brushing your teeth
- Opening the toothpaste tube
- Combing or brushing your hair
- Using a spoon at breakfast time
- Dialing a number
- Using the computer mouse
- Typing on your computer keyboard

With your eyes closed try using your unusual hand to:

- Dressing and buttoning or zipping up
- Washing your face
- · Carefully opening and shutting doors and containers;

To tax your brain:

- Turn your calandar upside down
- Wear your watch upside down on your unusual wrist
- Read a newspaper ite when it is upside down
- Turn family photos upside down and display in another room



Day-to-day exercises

When you are really energetic, use your non dominant hand to:

- Throw a ball into a basket or bucket. Repeat 10 times
- Throw a ball up and catch it. Repeat 10 times.
- Bounce a ball five to ten times.
- Roll a ball into the corner of the room. Rpeat 10 times.



Exercises involving tasks using two or more of the five senses (sight, hearing, smell, taste and touch):

- Dancing to recorded or live music turn up that radio!
- Singing whilst drawing or painting a picture
- Singing whilst doing a task such as housework or gardening
- Watching the clouds go by whilst creating a shape with modelling clay
- Drawing a picture, singing in a room with a lovely smell of lavender



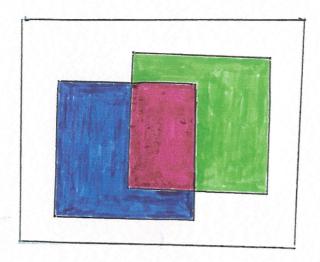
Examples of non dominant hand designs

The next **eleven** pages illustrate **seventeen** examples of non dominant hand designs created from **two or more** overlapping geometrical shapes.

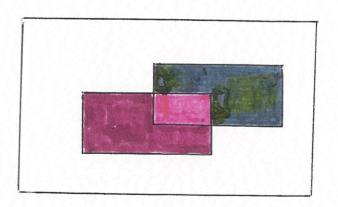
Example 17 illustrates four designs placed together which can be used to make a framed design for display. If desired, two of the four designs could also be used for a framed display. (three or even one design could also be considered!)

You may also wish to consider enlarging some of the designs from A4 size to A3 size.

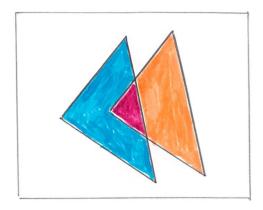
Example 1.



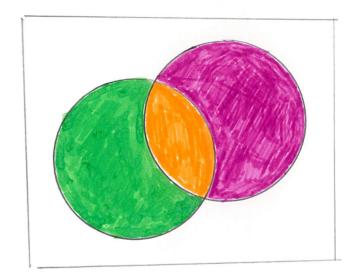
Example 2



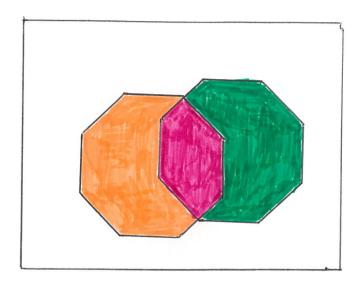
Example 3



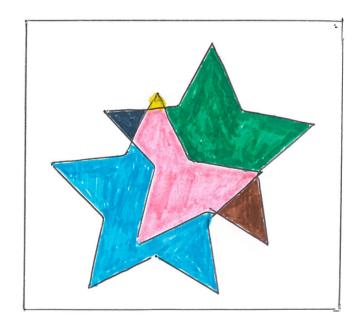
Example 4



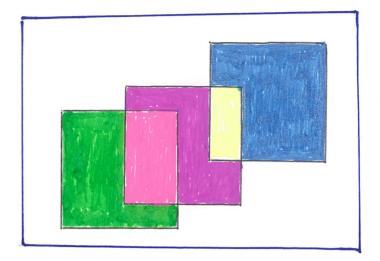
Example 5



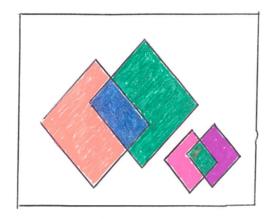
Example 6



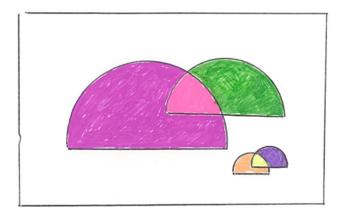
Example 7



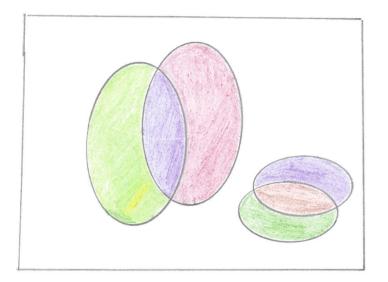
Example 8



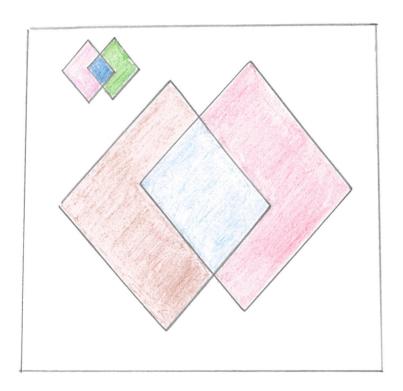
Example 9



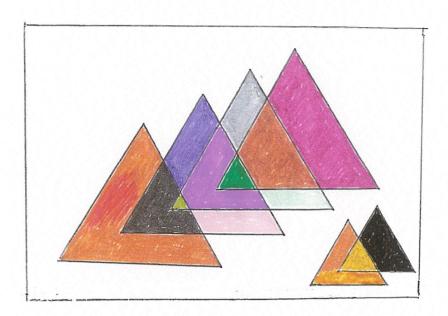
Example 10



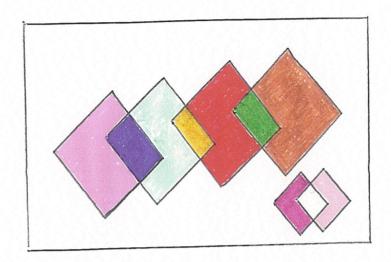
Example 11

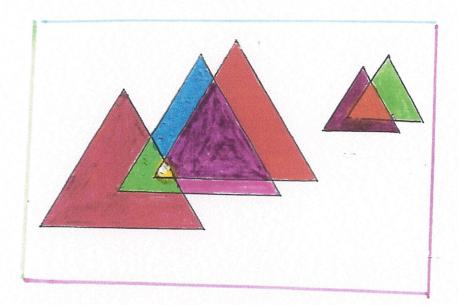


Example 12

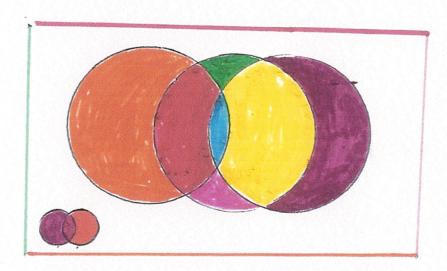


Example 13

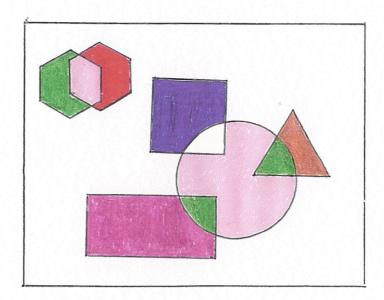


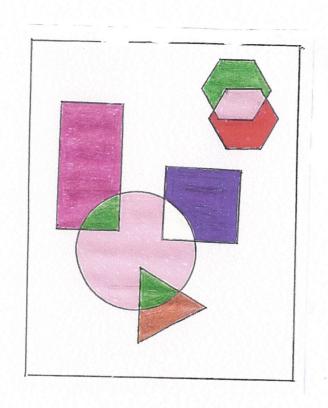


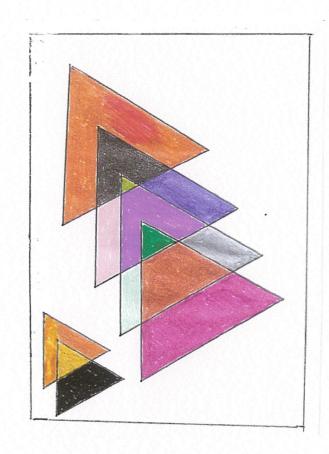
Example 15

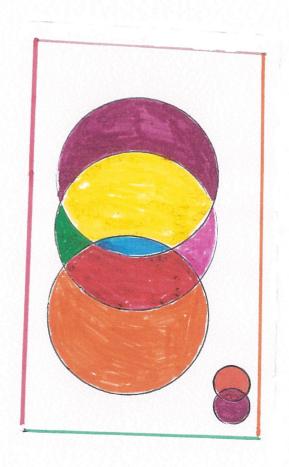


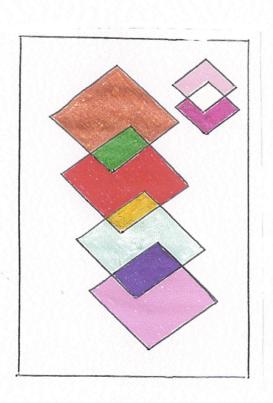
Example 16

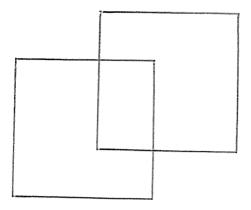












The diagram shows two overlapping squares.

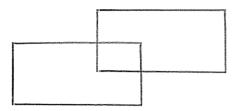
On white paper, use your non dominant hand, a ruler and pencil or pen, to make a similar sketch of the diagram.

Using your non dominant hand again, complete the design using coloured pencils, felt pens or any other colouring devise by shading in the three areas in the diagram in different colours.

Well done! You have now completed your first non dominant hand coloured design using overlapping mathematical shapes.

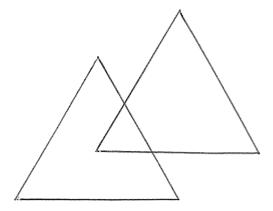
Keep all your designs together safely so that you can later combine some of them to form beautiful art works like the ones illustrated earlier in this resource.

You may later wish to frame your designs and diplay them in a prominent place.



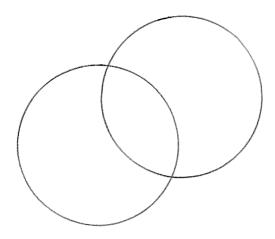
The diagram shows two overlapping rectangles.

On white paper, use your non dominant hand, a ruler and pencil or pen to make a similar sketch of the diagram.



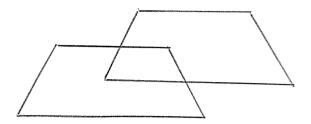
The diagram shows two overlapping triangles.

On white paper, use your non dominant hand, a ruler and pencil or pen to make a similar sketch of the diagram.



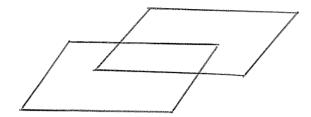
The diagram shows two overlapping circles.

On white paper, use your non dominant hand, a ruler and pencil or pen to make a similar sketch of the diagram.



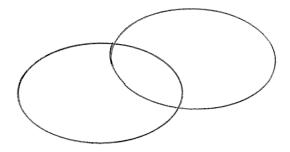
The diagram shows two overlapping trapeziums.

On white paper, use your non dominant hand, a ruler and pencil or pen to make a similar sketch of the diagram.



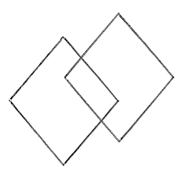
The diagram shows two overlapping parallelograms.

On white paper, use your non dominant hand, a ruler and pencil or pen to make a similar sketch of the diagram.



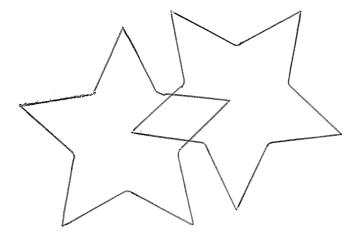
The diagram shows two overlapping ellipses.

On white paper, use your non dominant hand, a ruler and pencil or pen to make a similar sketch of the diagram.



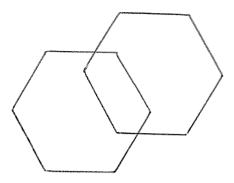
The diagram shows two overlapping diamonds.

On white paper, use your non dominant hand, a ruler and pencil or pen to make a similar sketch of the diagram.



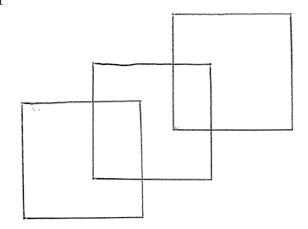
The diagram shows two overlapping stars.

On white paper, use your non dominant hand, a ruler and pencil or pen to make a similar sketch of the diagram.



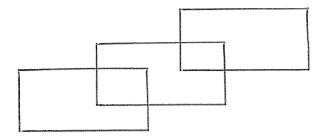
The diagram shows two overlapping hexagons.

On white paper, use your non dominant hand, a ruler and pencil or pen to make a similar sketch of the diagram.



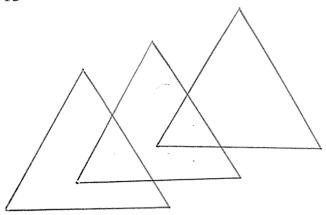
The diagram shows three overlapping squares.

On white paper, use your non dominant hand, a ruler and pencil or pen to make a similar sketch of the diagram.



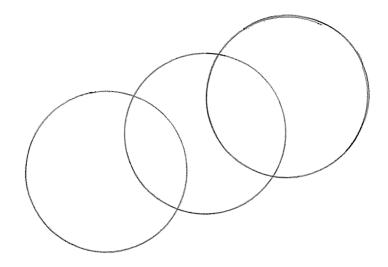
The diagram shows three overlapping rectangles.

On white paper, use your non dominant hand, a ruler and pencil or pen to make a similar sketch of the diagram.



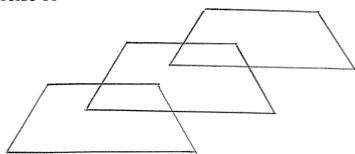
The diagram shows three overlapping triangles.

On white paper, use your non dominant hand, a ruler and pencil or pen to make a similar sketch of the diagram.



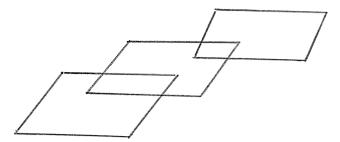
The diagram shows three overlapping circles.

On white paper, use your non dominant hand, a ruler and pencil or pen to make a similar sketch of the diagram.



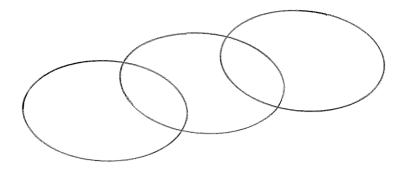
The diagram shows three overlapping trapeziums.

On white paper, use your non dominant hand, a ruler and pencil or pen to make a similar sketch of the diagram.



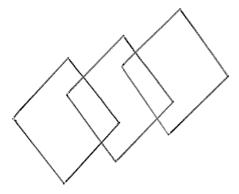
The diagram shows three overlapping parallelograms.

On white paper, use your non dominant hand, a ruler and a pencil or pen to make a similar sketch of the diagram.



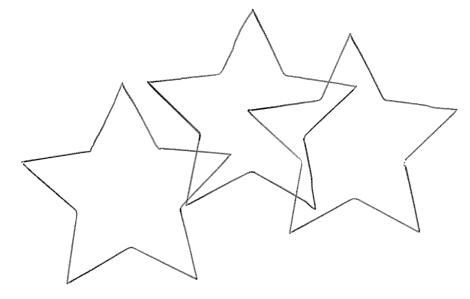
The diagram shows three overlapping ellipses.

On white paper, use your non dominant hand, a ruler and a pencil or pen to make a similar sketch of the diagram.



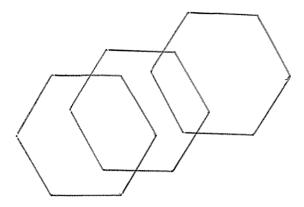
The diagram shows three overlapping diamonds.

On white paper, use your non dominant hand, a ruler and a pencil or pen to make a similar sketch of the diagram.



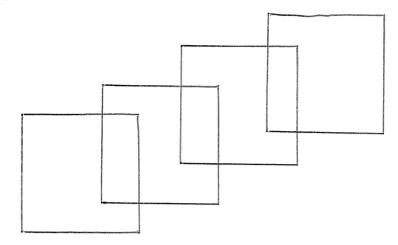
The diagram shows three overlapping stars.

On white paper, use your non dominant hand, a ruler and a pencil or pen to make a similar sketch of the diagram.



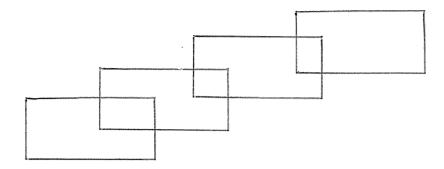
The diagram shows three overlapping hexagons.

On white paper, use your non dominant hand, a ruler and a pencil or pen to make a similar sketch of the diagram.



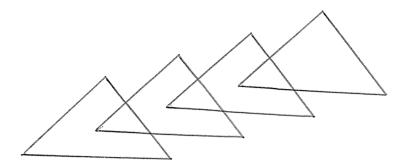
The diagram shows four overlapping squares.

On white paper, use your non dominant hand, a ruler and a pencil or pen to make a similar sketch of the diagram.



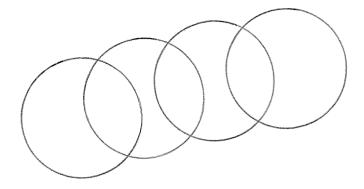
The diagram shows four overlapping rectangles.

On white paper, use your non dominant hand, a ruler and a pencil or pen to make a similar sketch of the diagram.



The diagram shows four overlapping triangles.

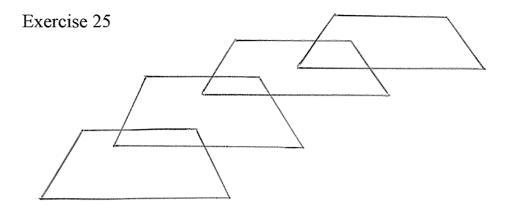
On white paper, use your non dominant hand, a ruler and a pencil or pen to make a similar sketch of the diagram.



The diagram shows four overlapping circles.

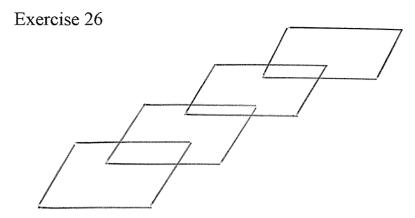
On white paper, use a circular object like a circular lid to make a sketch of the four circles. Or you can use a compass or a stencil with a pencil or pen to draw the circles.

Use your non dominant hand to make the sketch.



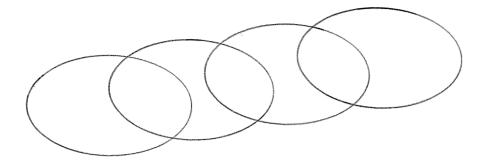
The diagram shows four overlapping trapeziums.

On white paper, use your non dominant hand, a ruler and a pencil or pen to make a similar sketch of the diagram.



The diagram shows four overlapping parallelograms..

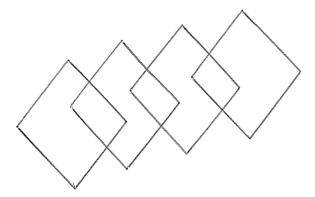
On white paper, use your non dominant hand, a ruler and a pencil or pen to make a similar sketch of the diagram.



The diagram shows four overlapping ellipses.

On white paper, make a sketch of the four ellipses using tracing paper, a pen or pencil.

Use your non dominant hand to make the sketch.



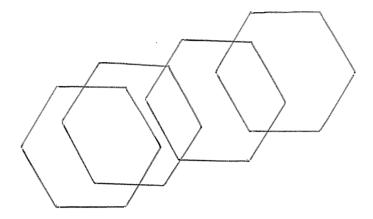
The diagram shows four overlapping diamond shapes.

On white paper, using your non dominant hand, make a sketch of the four diamond shapes using a ruler, pencil and pen.



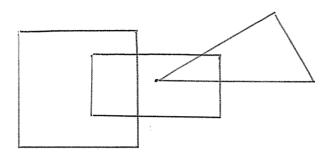
The diagram shows four overlapping stars

On white paper, using your non dominant hand, make a sketch of the four stars using a ruler, pencil and pen.



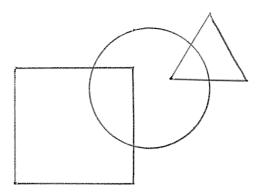
The diagram shows four overlapping hexagons.

On white paper, using your non dominant hand, make a sketch of the four hexagons using a ruler, pencil and pen.



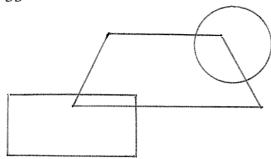
The diagram shows three overlapping shapes.

On white paper, using your non dominant hand, make a sketch of the diagram using a ruler, pencil or pen.



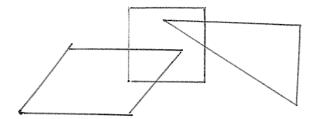
The diagram shows three overlapping shapes.

On white paper, using your non dominant hand, make a sketch of the diagram using a ruler, pencil or pen.



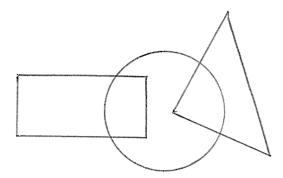
The diagram shows three overlapping shapes.

On white paper, using your non dominant hand, make a sketch of the diagram using a ruler, pencil or pen.



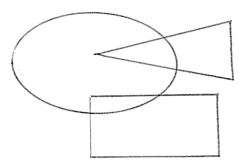
The diagram shows three overlapping shapes.

On white paper, using your non dominant hand, make a sketch of the diagram using a ruler, pencil or pen.



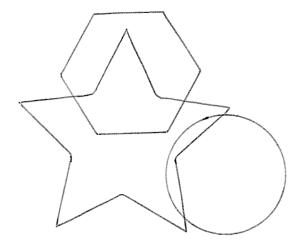
The diagram shows three overlapping shapes.

On white paper, using your non dominant hand, make a sketch of the diagram using a ruler, pencil or pen.



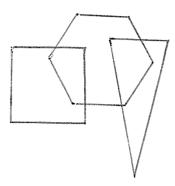
The diagram shows three overlapping shapes.

On white paper, using your non dominant hand, make a sketch of the diagram using a ruler, pencil or pen.



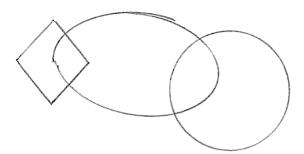
The diagram shows three overlapping shapes.

On white paper, using your non dominant hand, make a sketch of the diagram using a ruler, pencil or pen.



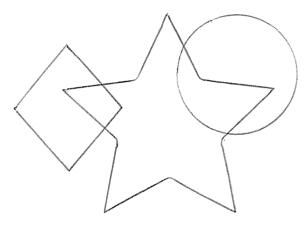
The diagram shows three overlapping shapes.

On white paper, using your non dominant hand, make a sketch of the diagram using a ruler, pencil or pen.



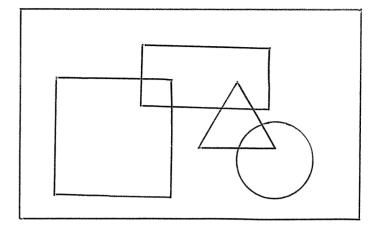
The diagram shows three overlapping shapes.

On white paper, using your non dominant hand, make a sketch of the diagram using a ruler, pencil or pen.



The diagram shows three overlapping shapes.

On white paper, using your non dominant hand, make a sketch of the diagram using a ruler, pencil or pen.

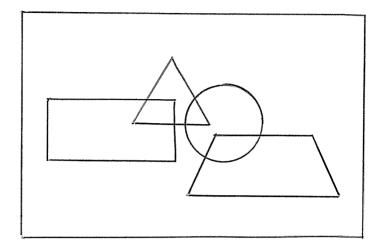


The diagram shows four different and overlapping shapes.

On white paper, using your non dominant hand, a ruler and pencil or pen, or a geometric shapes stencil, make a similar sketch of the diagram.

Using your non dominant hand again, complete the design using coloured pencils, felt pens or any other colouring method you prefer, by shading in the areas in the design created by the overlapping shapes.

Name the four overlapping shapes in your design.

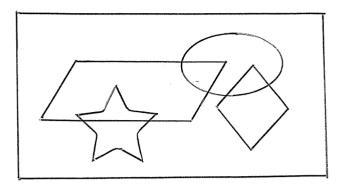


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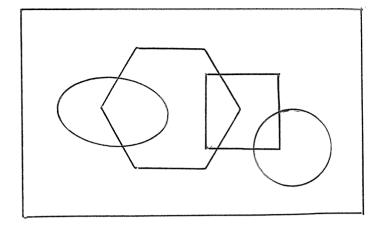


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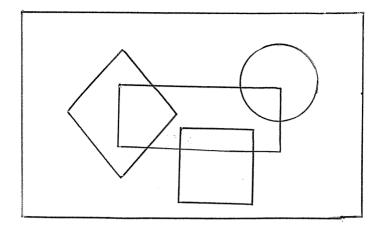


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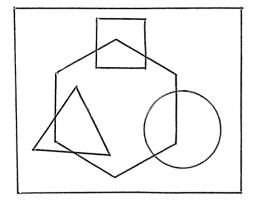


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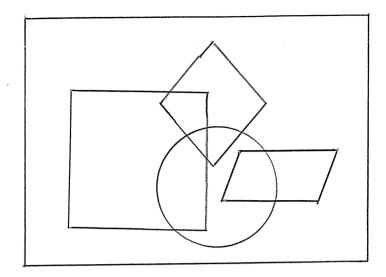


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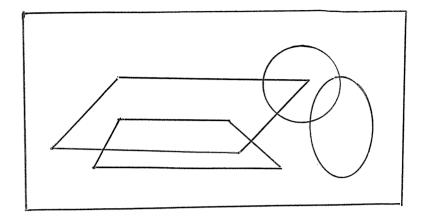


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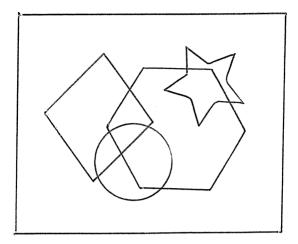


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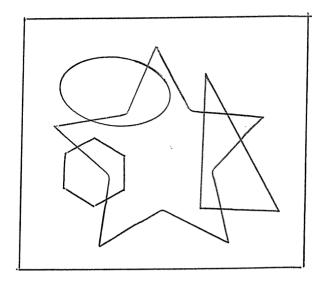


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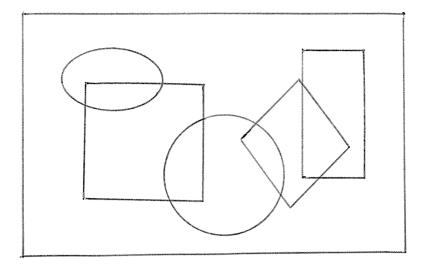


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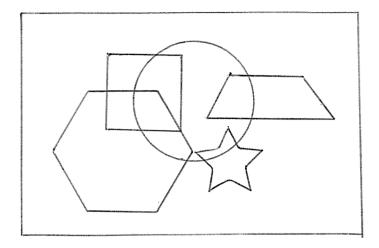


The diagram shows five different and overlapping shapes.

On white paper, using your non dominant hand, a ruler and pencil or pen, or a geometric shapes stencil, make a similar sketch of the diagram.

Using your non dominant hand again, complete the design using coloured pencils, felt pens or any other colouring method you prefer, by shading in the areas in the design created by the overlapping shapes.

Name the five overlapping shapes in your design.

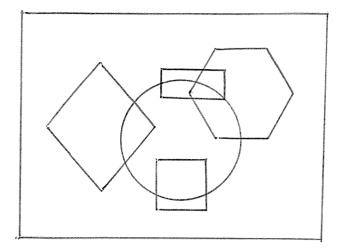


The diagram shows five different and overlapping shapes.

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Using your non dominant hand again, complete the design using coloured pencils, felt pens or any other colouring method you prefer, by shading in the areas in the design created by the overlapping shapes.

Name the five overlapping shapes in your design.

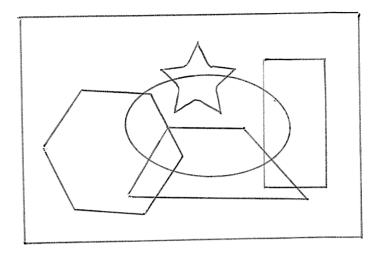


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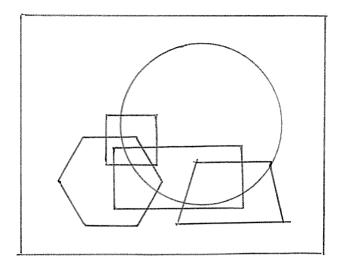


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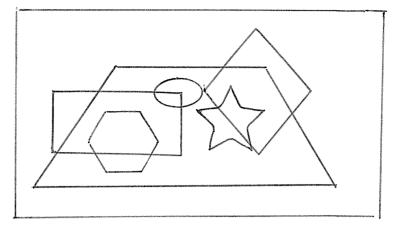


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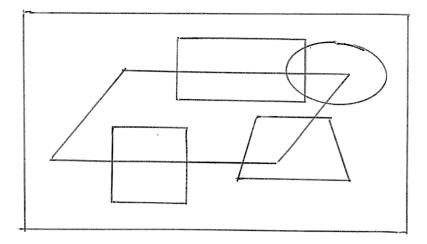


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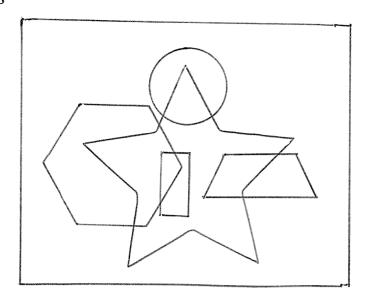


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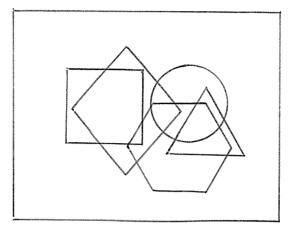


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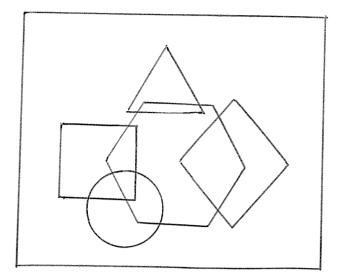


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Using your non dominant hand again, complete the design using coloured pencils, felt pens or any other colouring method you prefer, by shading in the areas in the design created by the overlapping shapes.

Name the five overlapping shapes in your design.

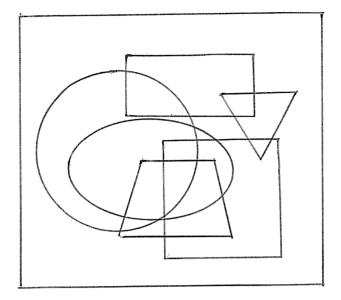


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Using your non dominant hand again, complete the design using coloured pencils, felt pens or any other colouring method you prefer, by shading in the areas in the design created by the overlapping shapes.

Name the five overlapping shapes in your design.

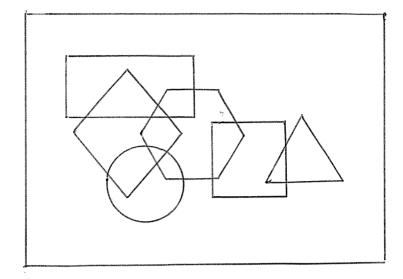


The diagram shows six different and overlapping shapes.

On white paper, using your non dominant hand, a ruler and pencil or pen, or a geometric shapes stencil, make a similar sketch of the diagram.

Using your non dominant hand again, complete the design using coloured pencils, felt pens or any other colouring method you prefer, by shading in the areas in the design created by the overlapping shapes.

Name the six overlapping shapes in your design.

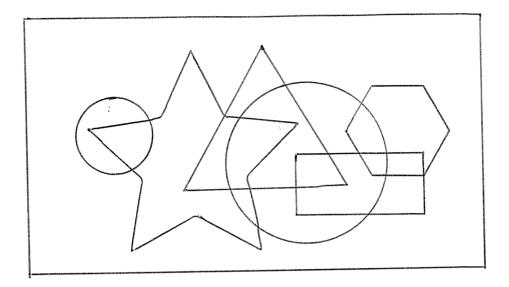


The diagram shows six different and overlapping shapes.

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Name the six overlapping shapes in your design.

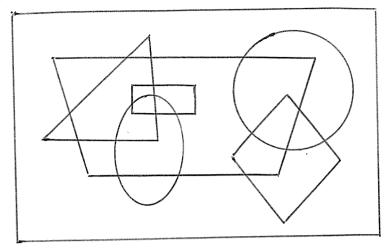


The diagram shows six different and overlapping shapes.

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Using your non dominant hand again, complete the design using coloured pencils, felt pens or any other colouring method you prefer, by shading in the areas in the design created by the overlapping shapes.

Name the six overlapping shapes in your design.

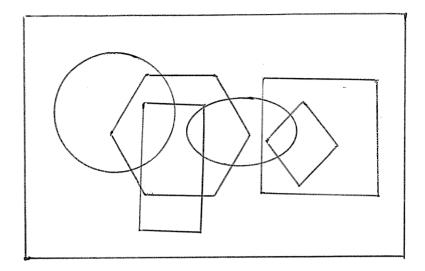


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Using your non dominant hand again, complete the design using coloured pencils, felt pens or any other colouring method you prefer, by shading in the areas in the design created by the overlapping shapes.

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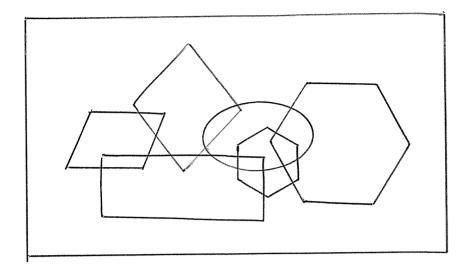


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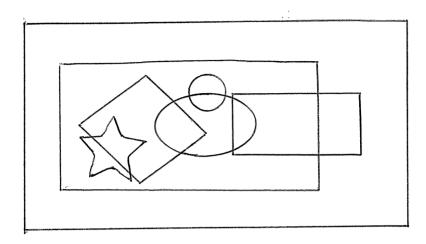


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Using your non dominant hand again, complete the design using coloured pencils, felt pens or any other colouring method you prefer, by shading in the areas in the design created by the overlapping shapes.

Name the six overlapping shapes in your design.

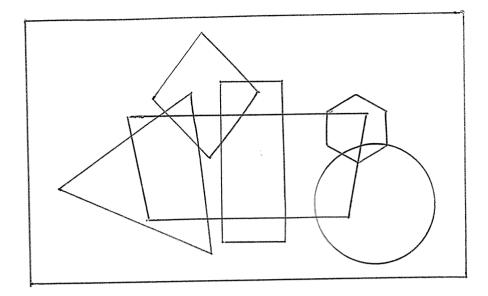


The diagram shows six different and overlapping shapes.

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Using your non dominant hand again, complete the design using coloured pencils, felt pens or any other colouring method you prefer, by shading in the areas in the design created by the overlapping shapes.

Name the six overlapping shapes in your design.

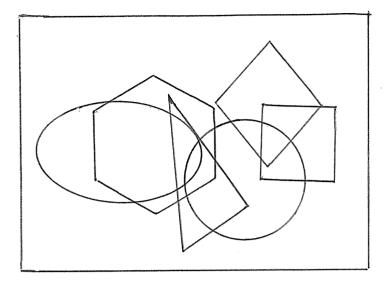


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Name the six overlapping shapes in your design.

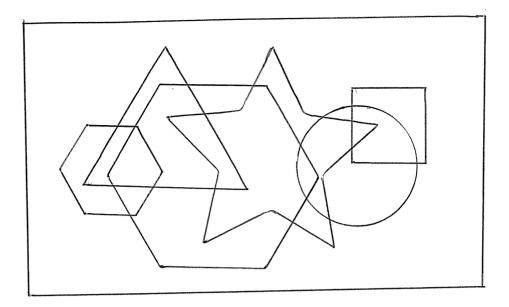


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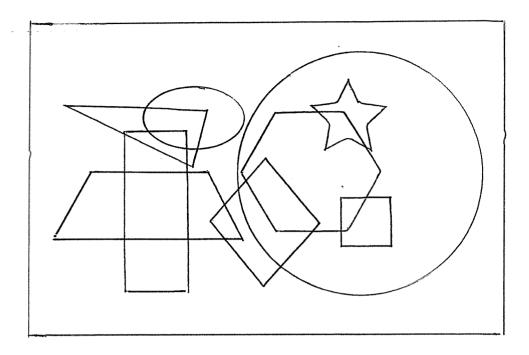


The diagram shows six different and overlapping shapes.

On white paper, using your non dominant hand, a ruler and pencil or pen, or a geometric shapes stencil, make a similar sketch of the diagram.

Using your non dominant hand again, complete the design using coloured pencils, felt pens or any other colouring method you prefer, by shading in the areas in the design created by the overlapping shapes.

Name the six overlapping shapes in your design.



The diagram shows a number of overlapping shapes.

On white paper, use your non dominant hand, a geometric shapes stencil, a pencil or pen to make a similar sketch.

Using your non dominant hand again, complete the design using coloured pencils, felt pens or any other colouring method by shading in all the spaces created by the overlapping shapes in the diagram in different colours.

Count the number of different overlapping shapes in the diagram and name them.

