



# High Flyers



To seek, to learn, today...to shape, to lead, tomorrow

Easter 2021 Highsted Grammar School Issue 4

## Get Dramatic with War Horse



Photo credit Brinkhoff/Mögenburg



**The real story of a refugee and his dangerous journey to safety.**

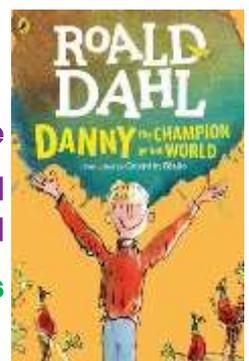
**The Six Nations: Get involved in Rugby**



**Also inside this issue:**

**Author of the Term: Roald Dahl**

**The Census**



**Courgette, onion and cheese muffins**



**The Bassoon**



**What's on the seashore?**



**AR: The latest tech trend**



**Enter the Photography competition or Maths challenge to win prizes!!!**





# Contents



Welcome to our fourth issue of High Flyers. The Highsted Virtue we have been focusing on this term, is empathy.

Which subject inspires you to unlock your potential?



**Pages 3 & 4 Special Feature:** War Horse. Discover how Michael Morpurgo's classic story was adapted into a stage show.

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# Drama: War Horse



## How was a beloved novel adapted for the stage?

At Highsted our Year 7 & 8 students have been exploring War Horse by the National Theatre.

The National Theatre's internationally acclaimed production of War Horse has been seen by over 8 million people in 11 countries, an unforgettable theatrical event which takes audiences on an extraordinary journey from the fields of rural Devon to the trenches of First World War France.



Photo credit Brinkhoff/Mögenburg

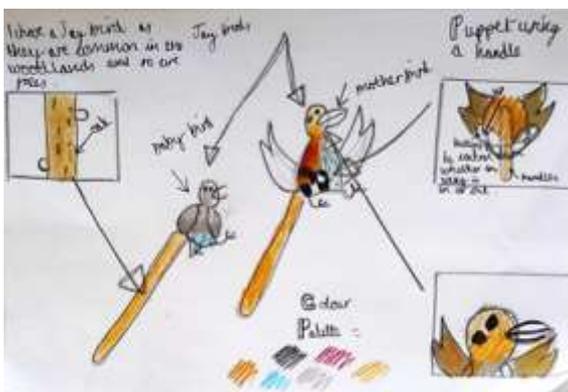
At the outbreak of World War One, Joey, young Albert's beloved horse, is sold to the Cavalry and shipped to France. He's soon caught up in enemy fire, and fate takes him on an extraordinary journey, serving on both sides before finding himself alone in no man's land. Albert, who remained on his parents' Devon farm, cannot forget Joey. Though still not old enough to enlist he embarks on a treacherous mission to find him and bring him home.

Based on the beloved novel by Michael Morpurgo, this powerfully moving and imaginative drama, filled with stirring music and songs, is a show of phenomenal inventiveness. At its heart are astonishing life-sized horses by South Africa's Handspring Puppet Company, who bring breathing, galloping, charging horses to thrilling life on stage.

## Challenge yourself to make your own farm animal puppet

Choose one of the following activities

- A Make a puppet using scrap materials at home. (Take care to ask an adult to assist with any dangerous operations)
- B Draw a sketch with full operating instructions.
- C Produce a PowerPoint of your design of your animal with operating instructions.





# Drama: War Horse



## Acting workshop: Monologue

### Acting Masterclass

Do you like acting? Can you vary your vocal and physical skills to create a character?

Have a play with this script to create emotions.

Change your Pitch from high to low to show the emotions and feeling of the character.

Vary your tone from frustrated to upset and your volume from loud to quiet.

Make certain words more important by saying them louder or making them longer.



Photo credit Brinkhoff/Mögenburg

- *It is the moment that the army are collecting horses to take them away from their owners and train them to become war horses in WW1 – imagine seeing your pet or horse taken away to war.*
- “My Fathers sold him....hasn’t he? Joey is my horse. He is my horse and always will be, no matter who buys him. I look seventeen, I’m bigger than most seventeen year old’s. You won’t take me then? Not even as a stable boy? I’ll do anything, anything. *(pause)*

There’s no way then? There is nothing I can do? *(he becomes very upset)* Wherever you are, I’ll find you Joey. Take good care of him, please sir, till I find him again. There’s not another horse like him, not in the whole wide world. “

### Did you Know?

**Michael Morpurgo** has written over one hundred books and has won many awards.

War Horse was also made into a film by director Steven Spielberg.



### Have you read War Horse ?

Morpurgo writes about lots of historical stories, many are based on true events.

He also writes lots of tales about animals.

Photo credit Brinkhoff/Mögenburg





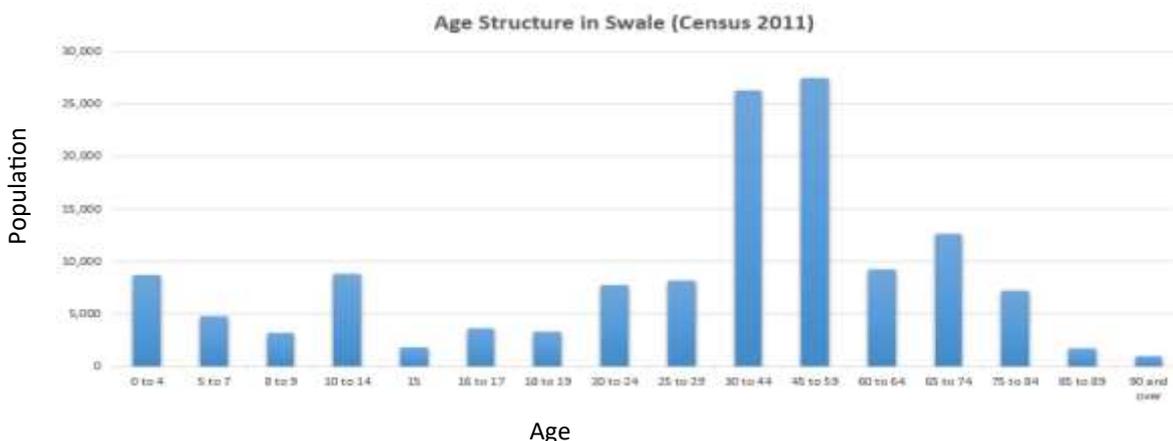
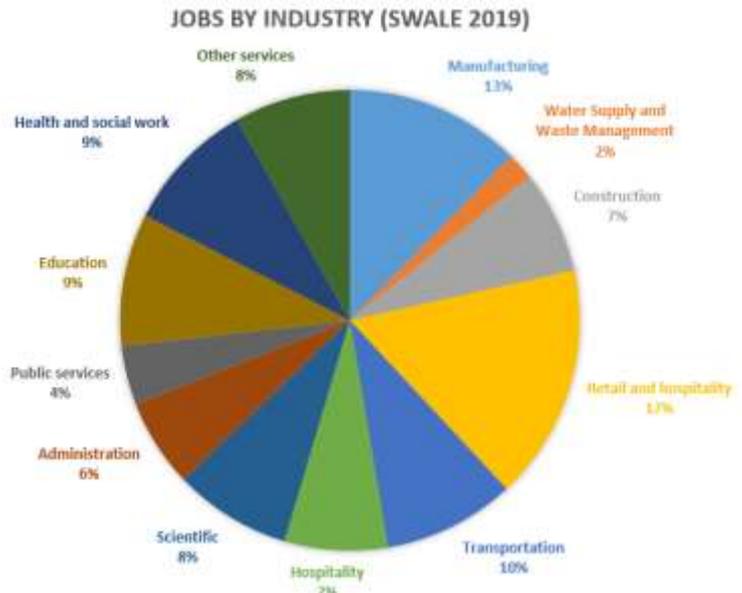
## The Census and Swale

The census is a count of all the people in England and Wales and is run by the Office for National Statistics (ONS). It asks questions including where people live, what jobs they do, how many cars they own and what languages they speak. This is used to plan services around the country such as housing, schools, hospitals, doctors and transport links. This year it took place on 21st March 2021.

The census has been held every ten years since 1801 (except in 1941 due to the Second World War). It is unique because it asks all people in England and Wales the same questions on the same day. It gives a detailed snapshot of the population at a single point in time. Comparing census data from different decades can show how the population has changed over time.

There were 56 questions on the 2011 Census questionnaire: 14 about the household and its accommodation and 42 for each member of the household. Many questions remain the same from one census to the next but some questions have changed to reflect developments in housing, technologies and society. Over 100 years ago there were fewer people than there are today. In 1901, there were 30 million people in England and 2 million people in Wales. In 2001 there were 48 million people in England and 3 million people in Wales.

In Swale there are over 150,000 people which is less than 1% of the population of Great Britain. Swale is the area in South East England which includes the towns of Sittingbourne, Faversham, Minster, Queenborough and Sheerness. The pie chart above shows different types of jobs people do in Swale. The chart below shows the number of people in each age category in the 2011 census. The largest bar here includes a wide age range, however the chart can still be useful to compare the size of different age groups. The age groups were chosen as typically they may have similar needs such as education, employment, housing or health care. Data and statistics are useful tools to help analyse trends of the past, get snapshots of current demographics and plan for future needs. [What questions would you ask?](#)



Data Source: ONS



## The story of a young Refugee

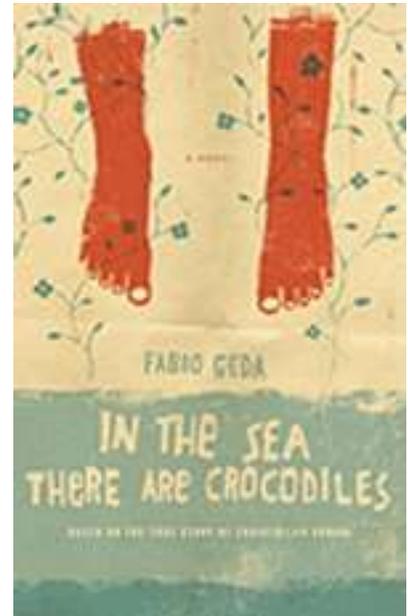
Imagine...you are ten years old...your parents wake you up in the middle of the night and drive you into the countryside...they take you out of the car with some simple belongings in a bag...kiss you and leave you there... alone...

What would you think ? What would you be feeling? Why would they do this? You are a child and now you are in an unknown place...alone...afraid... what would you do??

Well, this is exactly what happened to a ten year old boy called Enaiatollah Akbari.

Enaiatollah was born in a small town in northern Afghanistan where civil war (where the people in a country are fighting amongst themselves) was raging. Rebel Taliban forces had been bombing the cities and towns and many, many normal people like you and me had been killed in the streets, in their homes, just going about their everyday life...can you even imagine this in your life?

Enaiatollah's parents were so afraid that he would be killed that they decided to try to help him escape the country and find a better life outside Afghanistan. This brave boys journey is now a book called *In the Sea There Are Crocodiles*. Enaiatollah embarks on a truly life-and-death adventure which is narrated in a matter-of-fact way, from the ten year olds point of view.



**“you should be kind to everyone and shouldn't have to check their identity card or religious affiliation” p59**



### Based on a true story

The young boy, only 10 years old at the start of his journey, embarked on a 5 year trek across the Middle East 3000 miles to Italy where his parents thought he would hopefully find safety. He travelled from Afghanistan, across Pakistan, Iran, Turkey Greece and eventually reached Italy.





# Biology: Exploring the Seashore

There's lots to explore at the seashore at this time of year. Have a look below at the variety of organisms that can be spotted along our coastline. How many can you find? Are you able to identify them?



Edible crab claw



Cuttlefish bone



Slipper Limpet



Limpet



Bladder wrack



Spotted Ray Case



Periwinkle



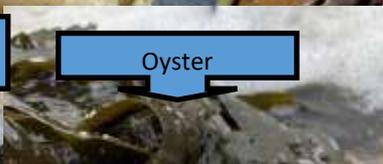
Blue Mussel



Calliblepharis ciliata



Whelk



Oyster



Small spotted cat shark



Clam



Razor clam





# Biology – Classification

## Kingdom

## Phylum

## Class

## Order

## Family

## Genus

## Species

Every living organism is classified using the same system, initially designed by Carl Linnaeus in 1758. It was to group species of similar characteristics together and provide a uniform system for naming species. In this issue we explore how animals are classified by their Family and Genus.

Organisms are placed into their Family and Genus due to similar characteristics.

All of the animals below belong to the same Family—Felidae, often referred to as the Cat Family. The genus separates the different groups of cats.



### TIGER

**Kingdom:** Animalia — Belongs to the animal Kingdom.

**Phylum:** Chordata — It is a Vertebrate (contains a backbone).

**Class:** Mammalia — It is a mammal (produces milk for its cubs).

**Order:** Carnivora — Carnivore, eats meat.

**Family:** Felidae — Feline family.

**Genus:** Panthera — Animals within this genus can roar.



### COUGAR

**Kingdom:** Animalia — Belongs to the animal Kingdom.

**Phylum:** Chordata — It is a Vertebrate (contains a backbone).

**Class:** Mammalia — It is a mammal (produces milk for its cubs).

**Order:** Carnivora — Carnivore, eats meat.

**Family:** Felidae — Feline family.

**Genus:** Puma — Large brownish New World cat.



### WILDCAT

**Kingdom:** Animalia — Belongs to the animal Kingdom.

**Phylum:** Chordata — It is a Vertebrate (contains a backbone).

**Class:** Mammalia — It is a mammal (produces milk for its cubs).

**Order:** Carnivora — Carnivore, eats meat.

**Family:** Felidae — Feline family.

**Genus:** Felis — Small to medium sized cats including the domestic cat.



### OCELOT

**Kingdom:** Animalia — Belongs to the animal Kingdom.

**Phylum:** Chordata — It is a Vertebrate (contains a backbone).

**Class:** Mammalia — It is a mammal (produces milk for its cubs).

**Order:** Carnivora — Carnivore, eats meat.

**Family:** Felidae — Feline family.

**Genus:** Leopardus — Comprises 8 species of small cat native to America.



**Read the next issue to find out about how animals are classified by their Species.**





## Secret Musician

**How would you describe your job?** Music Producer for BBC Radio 3, devising programmes using or making recordings from solo artists to symphony orchestras.

**Which instrument do you play?** I play piano, tuba and sing in choirs.

**How old were you when you started learning?** I started learning piano aged 6 and tuba aged 15.

**What did you enjoy most about learning to play?** I always enjoyed making music and creating harmony. When I was a teenager I played as an accompanist and in bands which spurred me on to progress musically.

**How did you train for your career?** Age 17 I heard about a job that combined my interest in technology with music. I studied for a degree in music then joined the BBC to train as a Music Producer.

**What is your favourite piece of music?** Claire de Lune by Debussy.

Welcome to the music page. Here you will learn about careers in music, unusual instruments and some of the signs and symbols that enable musicians from around the world to communicate through the universal language that is music.

## Lesser spotted instruments...

### The Bassoon

**Habitat:** the lowest instrument in the woodwind family, the bassoon is often found in orchestras.

**Played:** blowing into the mouthpiece which is made from reed.

**Looks:** a very distinctive instrument, so long that it almost rests on the floor and extends to the head height of the player.

**Sounds:** the bassoon has a very characteristic sound, cheeky yet sophisticated.

**Claim to fame:** A bassoonist uses every finger and both thumbs to play the instrument.



Can you find a recording of a bassoon being played?

Next time you are listening to a piece of music, try to hear the dynamics

Have you considered learning to play an instrument?

### Musical signs and Symbols

## Dynamics

Abbreviation	Full word (Italian)	Definition
<i>pp</i>	Pianissimo	Very soft
<i>p</i>	Piano	Soft
<i>mp</i>	Mezzo-piano	Medium soft
<i>mf</i>	Mezzo-forte	Medium Loud
<i>f</i>	Forte	Loud
<i>ff</i>	Fortissimo	Very Loud
	Crescendo	Gradually Louder
	Decrescendo	Gradually Softer

### Did you know...

- Dynamics is the volume of the music
- Italian words are used to describe this
- There are also words for getting louder and getting quieter



# Technology: Augmented Reality (AR)



You may have heard of Virtual Reality (VR) with the use of VR headsets for gaming with PS4 and X-Box where you are transported to a new world and are fully engulfed into this new reality. Well, Augmented Reality (AR) brings computer-generated objects into your real world through every day products such as your smart phone or tablet.

## What is Augmented Reality?

Augmented reality is one of the biggest technology trends at the moment and is only set to increase in its popularity as it becomes more accessible. AR lets you see the real life environment such as your back garden or bedroom—with a digital overlay of enhanced objects; for example, an out of this world alien.



Below are some examples of where AR is used in industry.

1. Interior Design, for example the Ikea Place App where customers can test out what a new sofa would look like in their sitting room.
  2. Retail, where you are able to “try” on a new outfit or accessories without having to change your clothes.
1. Service and maintenance of any mechanical product such as a car or electrical device. AR is used to can guide workers in fixing these products.
  2. Medical training for up and coming surgeons who need to experience of performing surgery using AR headsets.

## How can AR be used in education?

Now that you have a better understanding of AR, I would like to set you an AR design challenge. Can you design an app or think of a way that AR can be used in schools such as yours to help with teaching and learning. Why not tell your teacher about this idea, it could be the next big thing in the classroom of tomorrow.



### Facts about AR.

- The term Augmented Reality was created in 1990 by Tom Caudell.
- Pokémon Go launched in 2016 was the beginning of the rise in use of AR. Nintendo received 800 million downloads.
- AR is 3 times more memorable compared to traditional non-AR media.









# Challenge



## Scrambled Eggs

Each egg contains a different number 1-11.

Number 1 is below 3 and left of 9.

Number 6 is below 10 and right of 7.

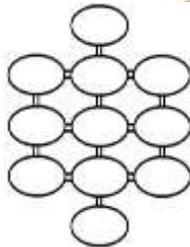
Number 2 is below 8 and left of 11.

Number 7 is above 4 and right of 5.

Number 3 is left of 2.

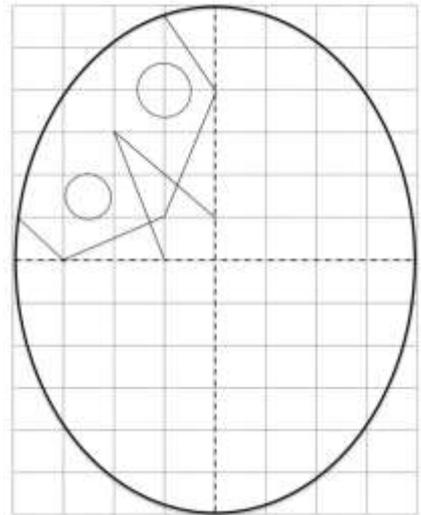
Can you find which egg is which?

Write your answer in this grid.



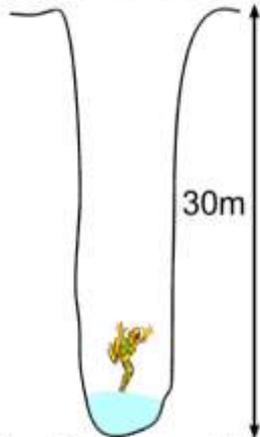
## Reflect and Reflect

Use the grid lines to complete the **symmetrical** pattern.



## The Jumping Frog

**A frog has fallen into a pit that is 30m deep.**



**Each day the frog climbs 3m, but falls back 2m at night. How many days does it take for him to escape?**

The Jumping Frog © Duncan Keith (CC license)

## Sudoku

Can you complete this Sudoku so that every column, row and 3x2 rectangle contains 1-6 only once?

3					5
	5			2	
6					1
1					3
	3			5	
5					2

Send your answers to:

ks3@highsted.kent.sch.uk:

Place **Maths Challenge** in the subject box:

Competition closes: 7th May2021

Please Include:

Your name, age, your primary school





# Photography Competition



\*\*\*\*\*  
\* **Be inspired by colour!** \*  
\*\*\*\*\*

## Photography Competition



Here is your chance to enter our spring photography competition. Take a photo on the theme of **Colour** so get outside and start snapping! You could be inspired by nature or photograph everyday things in an unusual way.



Send in your entry to:  
[ks3@highsted.kent.sch.uk](mailto:ks3@highsted.kent.sch.uk)

Place in the subject box:

**Colour**

Include:

- Your name
- Your Age
- Your Primary school
- And your picture!



**Competition closes 7th May 2021**



The runner up and winning photos will be displayed in Issue 4 of High Flyers.





## Travel back to a different pace of life

### Danny the Champion of the World

Although Roald Dahl remains a very popular author, Danny The Champion of the World often gets overlooked. It is very different to many of Dahl's other stories that are full of fantastic characters and extraordinary events. Danny's story is more realistic and quiet but still bursts with excitement, danger and laughter.

Danny and his father live a very simple but happy life in a gypsy caravan behind the filling station which Danny's father owns.

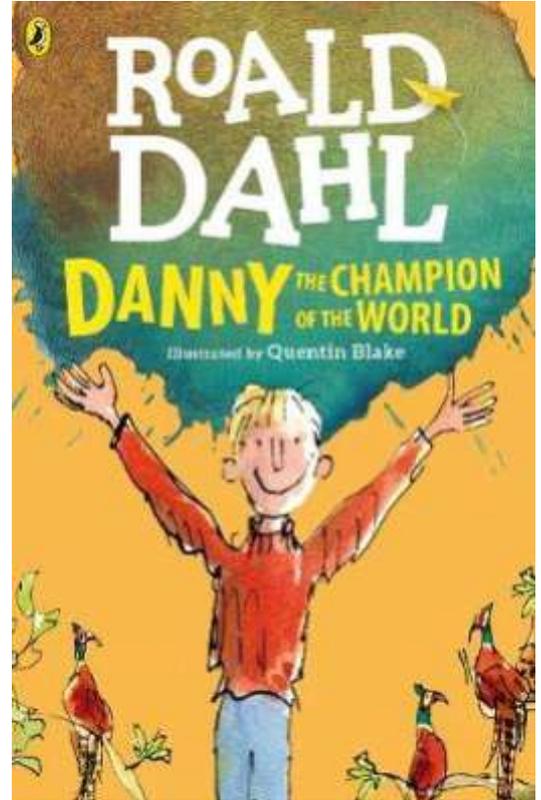
**"My father, without the slightest doubt, was the most marvellous and exciting father any boy ever had."**

#### Danny

The relationship between Danny and his father is warm and tender. Danny's mother died when he was a baby so his father did everything for him. They have great adventures with simple activities like kite flying and making lanterns.

The story focuses on Danny and his father William poaching pheasants from the horrible land owner Victor Hazel. The fiendish plot to outwit Mr Hazel is ingenious and Danny shows great courage and loyalty to his father when a terrible accident occurs.

I thoroughly recommend this heart-warming timeless tale.



"If you are going to get anywhere in life you have to read a lot of books."  
- Roald Dahl

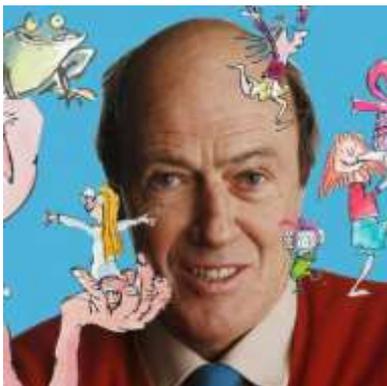


### Author of the Term: Roald Dahl

Born in Llandaff, Wales, on 13th September 1916 to Norwegian parents, he wrote about his childhood and experiences at boarding school in Boy. Roald Dahl worked in Africa and was an ace fighter pilot in World War

II but was injured when his plane got shot down over the desert. He writes about this in his second autobiography *Going Solo*. He was also a spy in Washington, a chocolate historian and a medical inventor. As well as many children's stories he wrote film screenplays for *Chitty, Chitty, Bang Bang* and a James Bond Movie! He also wrote adult books and had his own TV show. Many of his books like *Matilda* and *Charlie and the Chocolate Factory* have been made in to films or stage shows.

Roald Dahl died on 23 November 1990, aged 74.





# Answers to Challenge 3-



## Featured in Issue 3 of High Flyers

### Changing Clocks

Find the missing times to complete the table.

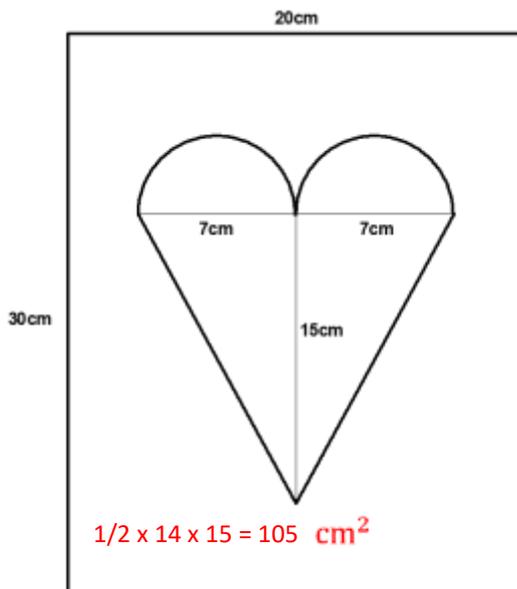
Read the Maths article to find out more about decimal time.

Hint: 1 decimal hour is 2 hours 24 minutes in our time.

When converting from the 24-hour clock to the 12-hour clock remember: for any time after 12:59, subtract 12 from the number of hours.

Decimal time	24-hour clock	12-hour clock
0 (midnight)	00:00	12:00 a.m.
1	00:24	2:24 a.m.
2	04:48	4:48 a.m.
3	07:12	7:12 a.m.
4	09:36	9:36 a.m.
5 (noon)	12:00	12:00 p.m.
6	14:24	2:24 p.m.
7	16:48	4:48 p.m.
8	19:12	7:12 p.m.
9	21:36	9:36 p.m.

### Friendship Cards



Can you make this card and send it to someone special?

The heart is made up of an isosceles triangle and two semi-circles. **What is the area of the triangle?**

### Missing Multiples

x	2	5	10	4	8	7
6	12	30	60	24	48	42
3	6	15	30	12	24	21
9	18	45	90	36	72	63
5	10	25	50	20	40	35
12	24	60	120	48	96	84
11	22	55	110	44	88	77

Can you fill in the multiplication square?

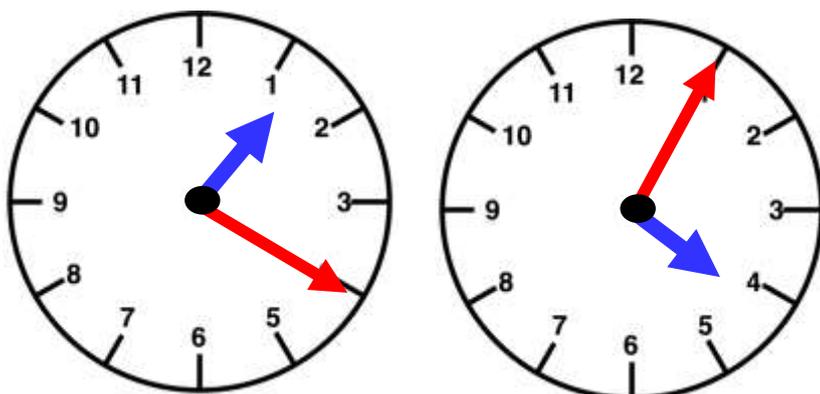
The numbers 2 to 12 were used to create it, with one number used twice.



### Reading Time

How long does it take for the clock hands on the left clock first reach the time shown on the right clock?

From 1:20 until 4:05 is **2 hours 45 minutes.**





# *Acknowledgments*



High Flyers was produced by Highsted Grammar School to inspire Key Stage 2 students in local primary schools to develop a passion for learning across the curriculum.

## **Acknowledgements**

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