







lee

Kappy Birthday!



The Royal Air Force or 'RAF' is 100 years old in 2018.

It is the oldest airforce in the world. To help celebrate, they have produced this activity book for you.







Look out for these - they tell you about the activity you are working on.



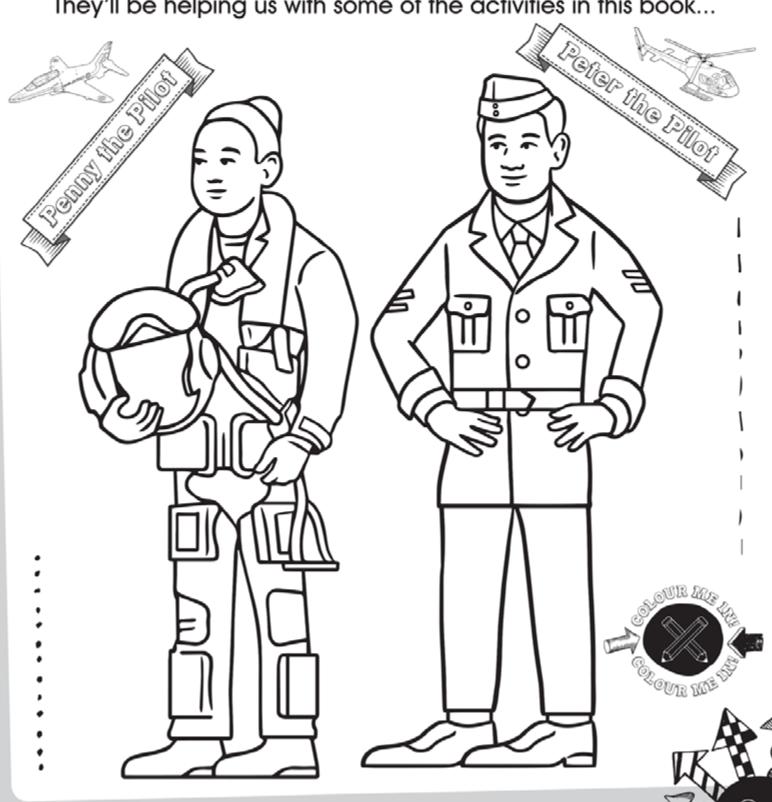


When you see this it means you can colour it in!

This is Penny and Peter, they are both pilots. Penny is a Jet pilot and flies a Typhoon. Peter is a helicopter pilot and flies a Puma.

Can you colour them in?

They'll be helping us with some of the activities in this book...



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Н S S Т Q Н S M K S R R Ν Ε Ν G Ν Ε Ε R R R W Z Т Ν Τ G В Ζ R K Ζ Х Т Ε R F F S R Ε R Α R D U Ε R S R R M Τ Κ O Ν R Ε X

Try to find the words below in the wordsearch box. Circle each word you find.

AIR AIRCRAFT AIRPORT

ENGINEER FORCE HELICOPTER

PILOT REDARROWS RUNWAY

SPITFIRE TOWER





Can you help with these...

LOTPI





GS ENGLISH

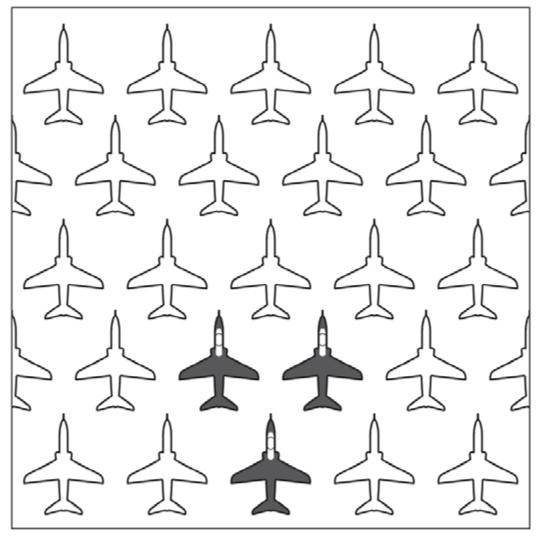
The letters that make up these words have been mixed up and the RAF need your help to put them into the correct order to find the words.

	CLUE: This person flies aircraft
	NEERENGI
	WYANUR CLUE: This is important to help aircraft take off
	NIGW
	FICRATF
	ERPOCTILHE
•	FFOEKAT
• •	ANLDNIG



Missing Aircraft)





Colour in the missing aircraft so that the Red Arrows can fly in a diamond shape.



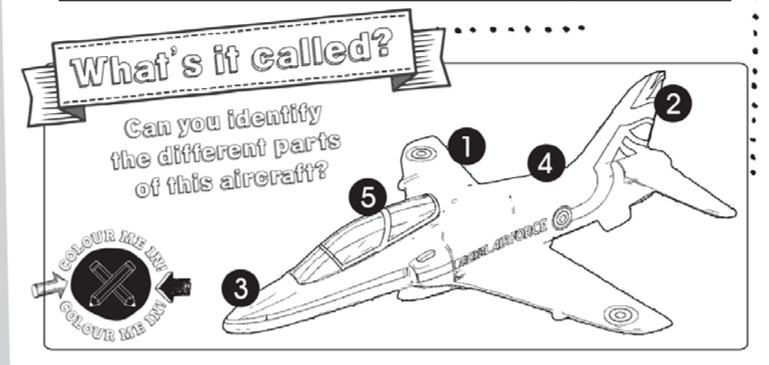




This is Angela, she flies aircraft for the Royal Air Force. Can you think of what her job is called and fill in the blank spaces?

PLT





Put the number next to the word:

NOSE WING COCKPIT

FUSELAGE () TAIL





Can you match the RAF job to the equipment used by drawing a line from the name to the

right picture?

Radar Operator

Pilof

Medic/Rescue

Computer Scientist

Communication noferaggo

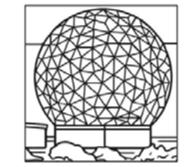










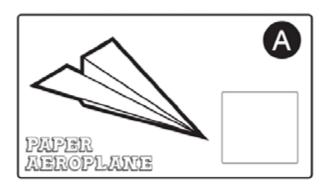


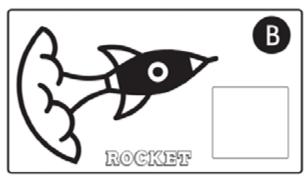


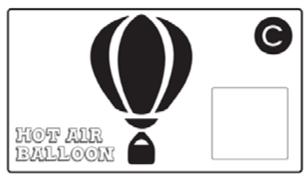
Air Traffic Controller



Which of these aircraft can travel the fastest?
Place a tick in the box of the one that you think
can travel the fastest.





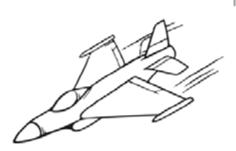




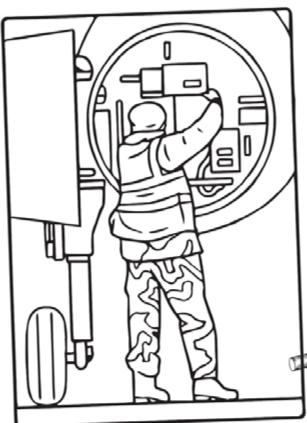
Can you put them in order (ranging from those that can travel the slowest to those that can travel the fastest)

	This can travel the slowest
	This can travel a bit faster
•	This can travel much faster

This can travel the fastest



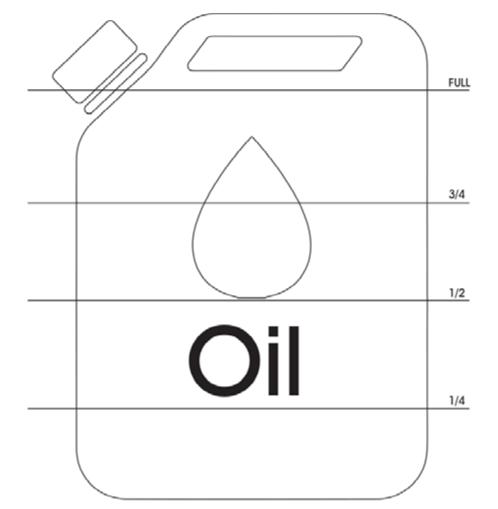




This RAF engineer has used one quarter of his can of oil when preparing an aircraft for flight. If the can was completely full before he started, can you shade in the area that is left?











At The Airport



The RAF use their own special airports to fly their aircraft.

They are quite similar to the ones people use when they go on holiday. Can you match the different pictures below to the right word?















Control Tower Luggage Passenger

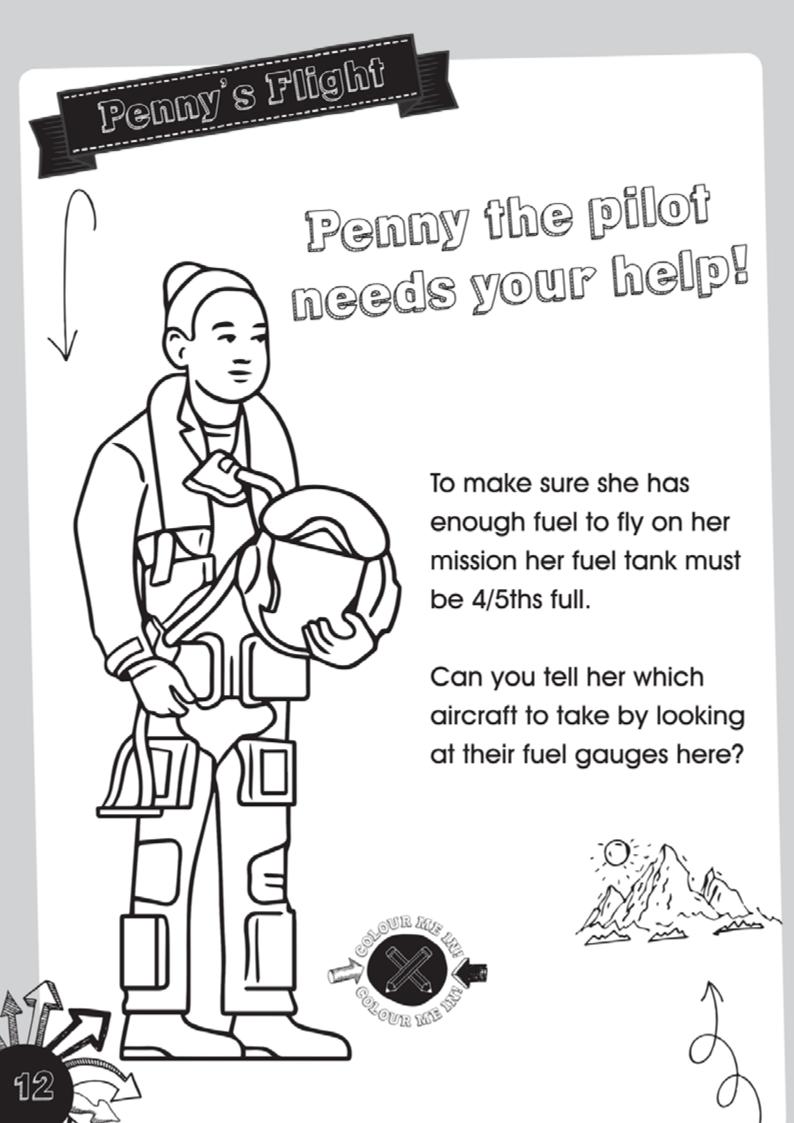


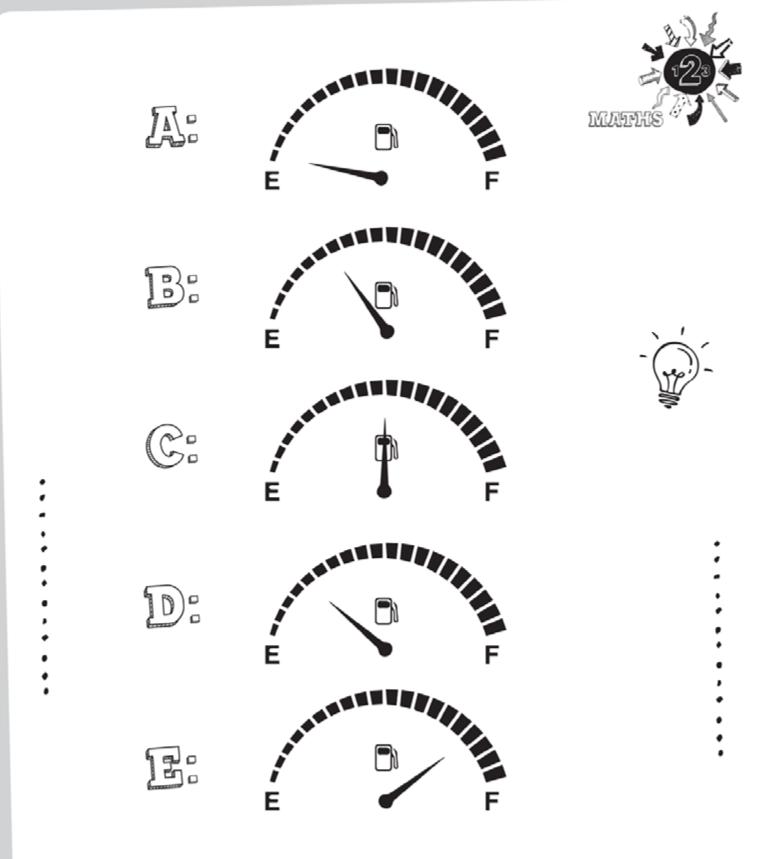




Aircraft Passport Radar





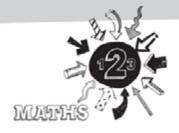


Write the letter in this box of the aircraft that Penny should take (the one that shows that it is 4/5ths full of fuel)



13

Transporting Food



The aircraft below is carrying food supplies. If it can carry enough food to feed 320 people, how many aircraft will we need to make sure that 1,000 people can be fed?





= enough food for 320 people!

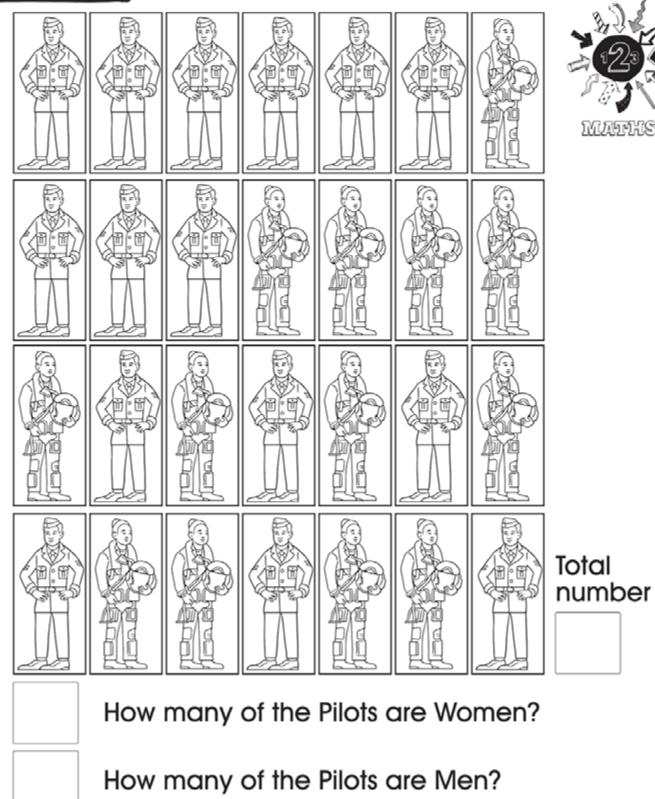


Write in this box how many aircraft we will need to make sure we can feed 1,000 people





Can you count how many RAF pilots are in this picture?
Write the total number in the box



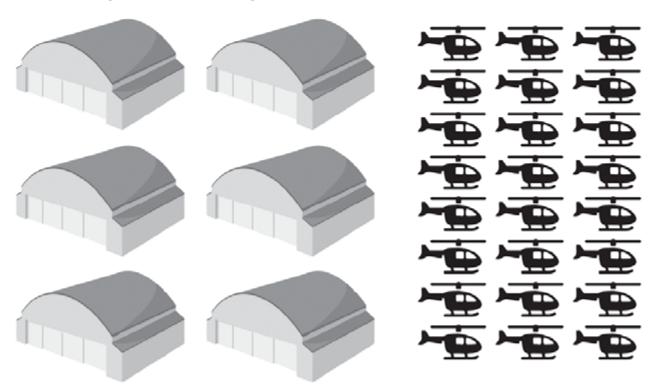
If half the Pilots were Women,

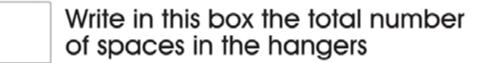
how many would there be?



This is an aircraft hanger - it is where helicopters are stored when they aren't being used.

Each of the aircraft hangers in the picture below can hold 4 helicopters, are there enough hangers for all of the helicopters in the picture?







16

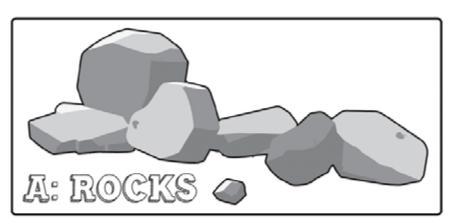
Write in here whether you think there are enough hangers for the helicopters ('Yes' or 'No')

Soff Surfaces

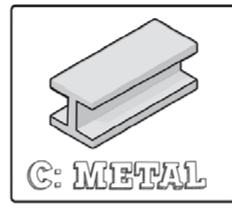




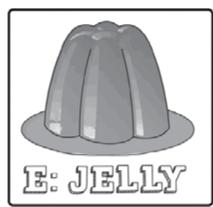
Runway surfaces are hard (like roads) which makes it easy for aircraft to land on them. Can you tell which from the list below is a hard substance or material and which is soft?











Write in this box which surfaces are soft:

rite in this box which surfaces are hard:

Which could you land an aircraft on?

17

Code Breaker



CODE 1

Α	В	С	D	Е	F	G	Н	1	J	K	L	М
Ν	0	Р	Q	R	S	T	U	٧	W	Χ	Υ	Z
Ν	0	Р	Q	R	S	Т	U	V	W	Χ	Υ	Z
A	В	С	D	E	F	G	\overline{H}	Ī	J	Κ	L	М

CODE 2

А	В	С	D	Е	F	G	Н	1	J	K	L	Μ
Z	Υ	Χ	W	٧	U	T	S	R	Q	Р	0	Ν
Ν	0	Р	Q	R	S	T	U	٧	W	Χ	Υ	Ζ
М	L	Κ	J		Н	G	F	Е	D	С	В	Α

CODE 3

Α	В	С	D	Е	F	G	Н	1	J	K	L	М
Α	J	S	В	K	T	С	L	U	D	M	٧	Е
Ν	0	Р	Q	R	S	Τ	U	V	W	Χ	Υ	Ζ
N	W	F	0	Χ	G	Р	Υ	Н	Q	Z	Ι	R

You will need to use all your skills as code breakers to crack the code.



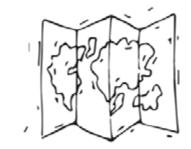
of ebos efairgorggs entrew abrow TAR esent two xrow

CODE 1

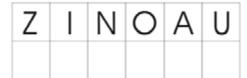
U	R	Е	Р	Н	Υ	R	F

CODE 2





CODE 3



CODE ?

Z	Ν	В	Q	L	S	Μ	Н	L	M



Code Maker

Use the codes to encrypt (code) the words below

CODE 1

Р	L	O	Т

CODE 2

Н	Ε	L	I	C	0	Р	Т	Ε	R

CODE 3

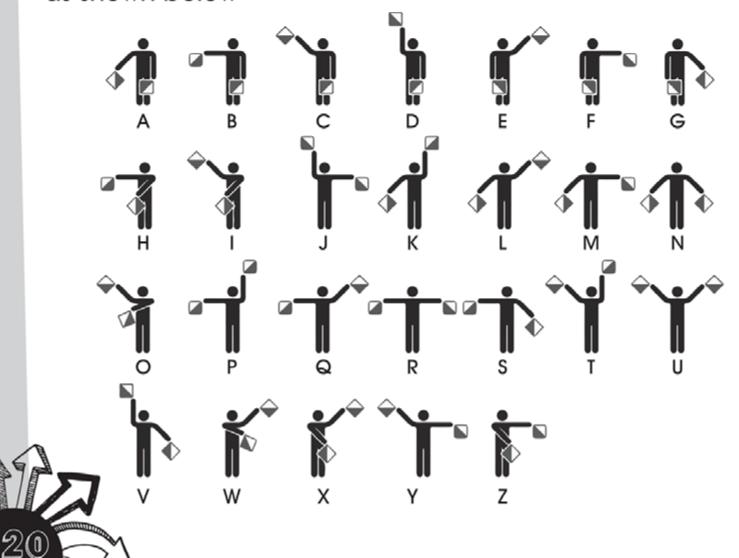
S	Р	I	Т	F	I	R	Ε



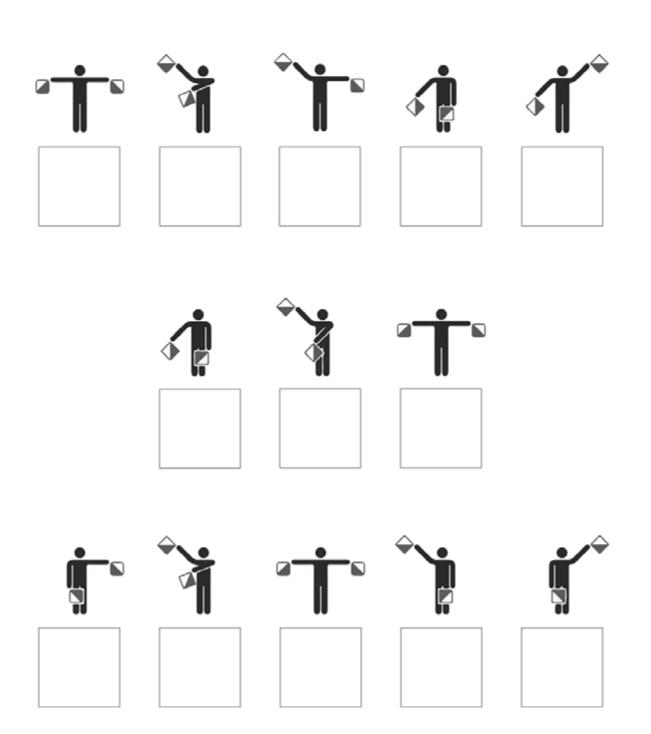


Semaphore is a system of sending messages by holding the arms or two flags or poles in certain positions according to an alphabetic code. It is really useful when you want to send a message to someone who is too far away to hear you.

Each letter of the alphabet has a particular code, as shown below



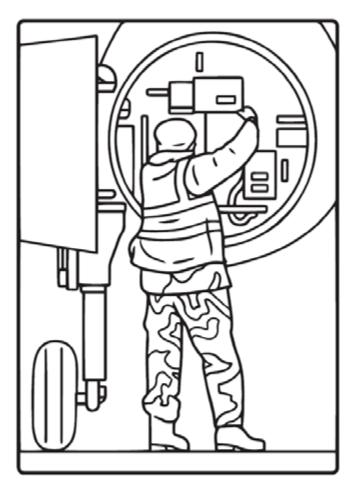
Using the semaphore code, can you tell what the message is? Write out each letter to spell the message.

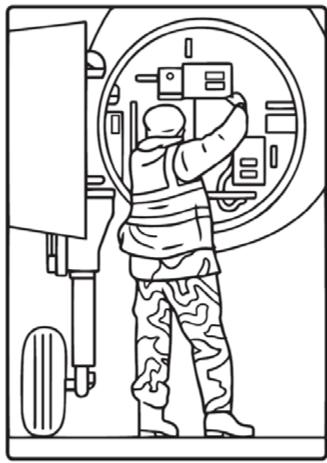


21



Can you find the differences between the two pictures?





Circle the differences you find here.



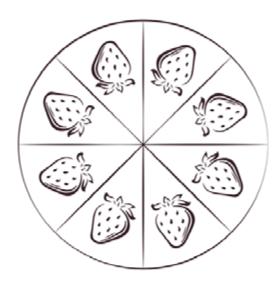








It's Penny the Pilot's birthday and she wants to share her birthday cake with as many people as possible. It has already been cut into slices.



Number of slices:



Number of people who can have a slice of cake each:



If Penny decided that each person can have two slices of cake each, how many people can have some cake? (clue: you will need to work out how many times you can count two slices in the cake).

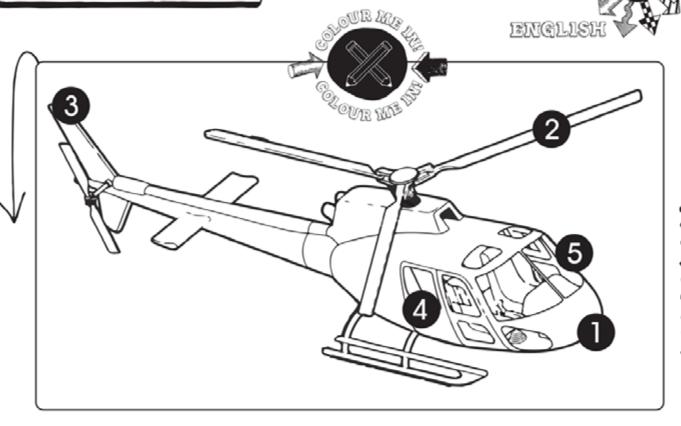
> Number of times you can count two slices:



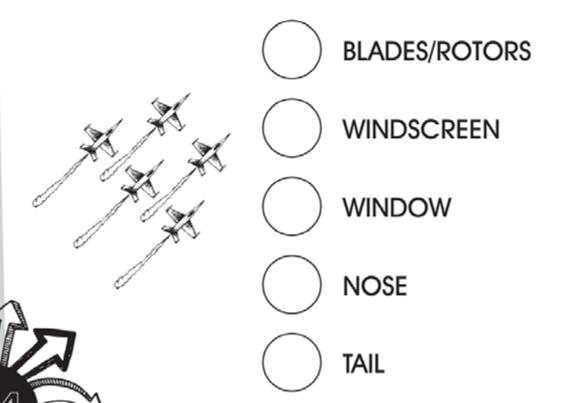
Number of people who can have two slices each:



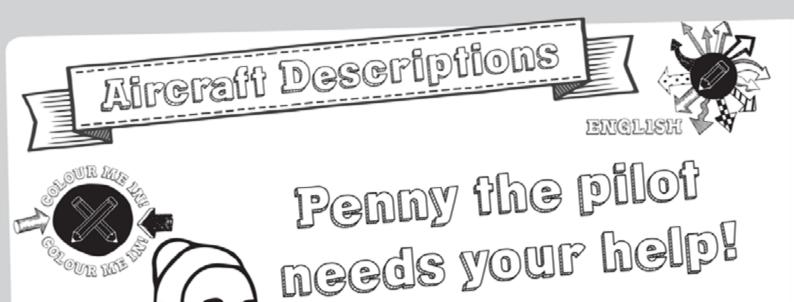
What's it Called?



Peter the Pilot wants you to help him to identify the different parts of this helicopter? Put the number next to the word:







Can you identify from the description, which aircraft she is describing?

Put the correct letter next to each aircraft.

A: A powered flying vehicle with fixed wings.

B: A type of aircraft in which lift and thrust are supplied by rotors





HELICOPTER





AEROPLANE

Penny & Peter's Busy Week



On Monday Penny flew 3 times in her jet aircraft.

Peter flew twice in his helicopter on Monday. They have completed the chart for Monday (by colouring in the number of aircraft). Can you complete the rest of the chart for them using the information they have provided?

10	455	45	455	455	455
9	45	455	4-55	455	455
8	4-55	4-55	4-55	4-55	45
7	455	455	455	4-55	
6	公司	公司	4-55	4-55	4-55
5	4-5				4-5
4	45				45
3	15		455	455	
2	+=	455	455	455	455
1	十一	4-55	4-55	455	4-55
	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
	Penny = 3 FLIGHTS	Penny = 2 FLIGHTS	Penny = 4 FLIGHTS	Penny = 1 FLIGHTS	Penny = 5 FLIGHTS
	Peter = 2 FLIGHTS	Peter = 3 FLIGHTS	Peter = 2 FLIGHTS	Peter = 5 FLIGHTS	Peter = 3 FLIGHTS

Can you write in this box the total number of times Penny the Pilot has flown her aircraft this week?

Can you write in this box the total number of times Peter the Pilot has flown his helicopter this week?





Spot the Difference

Can you find the differences between the two pictures?





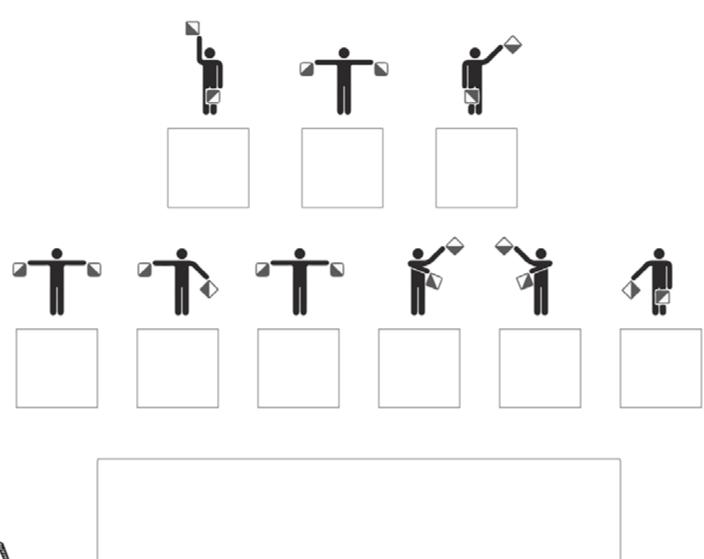
Circle the differences you find here.







You will need to look back at the codes for semaphore on page 20. All the letters are here to spell something about the Royal Air Force but they aren't in the right order! Using the codes for semaphore can you write out the letters and re-arrange them to spell the message?





Lighting Up!



Peter the Pilot says it is very important that he can see where he is flying in his aircraft – so his lights are really useful.

Can you identify the sources of light in the picture below by matching the picture to the word?

Matches

Star

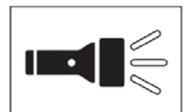
Candle

Lamp

Torch

Sife

Light bulb









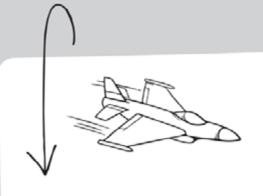






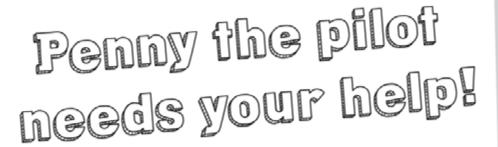
Can you write here which ones use electricity to generate light?





Flying Kigh



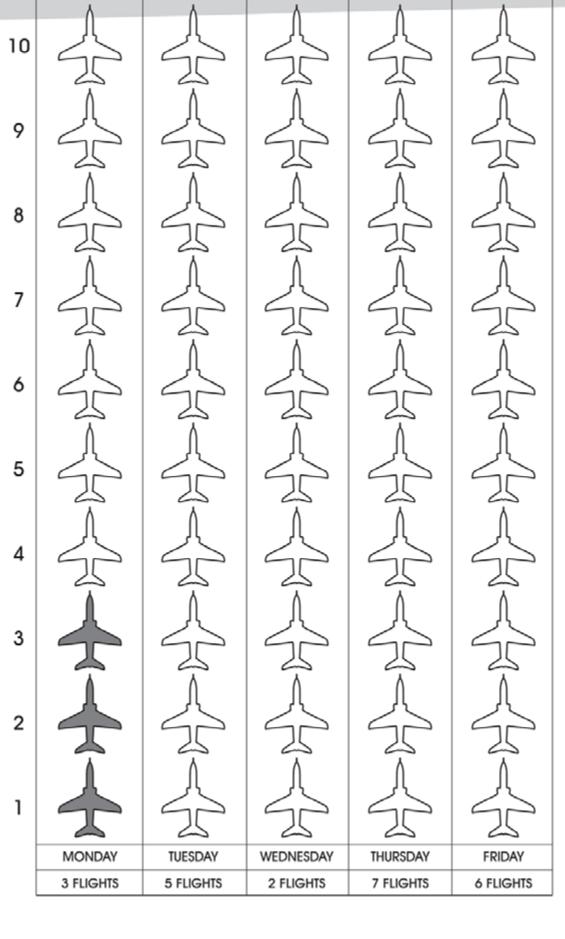


She needs to produce a chart showing how many times she flew her aircraft during the week.

On Monday she flew 3 times and has completed the chart for Monday (by colouring in the number of aircraft).

Can you complete the rest of the chart for her using the information she has provided?





Can you write in this box the total number of times Penny the Pilot has flown her aircraft this week?







