







Learners, Believers and Friends.

Name <u>Primary</u>

Miss J Williamson – Lead Practitioner in Maths williamsonj@msj.bolton.sch.uk <mark>Activity 1</mark> - All About Me

Could you do this in your neatest handwriting and use the best grammar and language you can?

How could I describe myself using as many numbers as possible?

e.g. I live at number 36 and I have 2 brothers and 1 sister.

Teacher Comments



Activity 2

Tick them off when you have completed them. Can you do all of them?

1	Make up an exciting adventure story in your head – can you retell it	17	Climb up a tree and monkey around
	to someone?	18	Learn something new – can you find a new hobby?
· 2	Invent something new, can you draw a picture of it or write a description?	19	Watch the sunset –
3	Read a book, comic or magazine somewhere unusual. Can someone take a photo of you doing it?	20	Visit the library and find a new favourite book
4	Make friends with someone new	21	Get your wellies on and get muddy!
5	Find a hill and go rolling down it	\sim	Do somothing kind for somoono
6	Have a water fight	22	Male shadew supports
7	Make up a dance routine to your favourite song	23	can you do a show for someone?
8	Go for a long walk somewhere you've never been before	24	Camp out in the garden – what an adventure!
9	Collect some leaves and twigs and make a piece of 'wild art'	25	Find some flat stones and go stone skimming
10	Build something; a den, a fort – your choice!	26	Start a collection
· …	Make paper geroplanes and	, 21	your way with a map?
- 11	see which flies the furthest	28	Go on a bug hunt – how manu can uou find?
12	Start a scrapbook of your summer holiday memories	29	Hide some treasure and make a
13	Play a board game with your family		treasure map for your friends to find it
14	Stay out till it's dark. What can you spot? Stars? Bats? Or something else?	30	Help to make a delicious meal for your family
15	Lie down outside and cloud spot, what shapes can you see?		
16	Write a letter or postcard to someone		







Teacher Comments



b



d What are the next two numbers in the sequence:

С

f

1, 5, 3, 10, 5, 15, ...?

• It is a factor of 900. • It is less than 50.

What is the number?

- It is a multiple of 9.
- The product of its digits is 20.

е Two numbers have a highest common factor of 4 and a lowest common multiple of 120.

What could the numbers be? Give as many possible answers as you can think of.

$10 - 10 \times 10 \div \frac{10}{10} + 10$

Evaluate:

Find	the	foll	owin	ıg w	ords	in t	he w	ord	a	What is the number?
sear	ch: e	xpres	sion	, terr	n, eq	uatio	on, ir	requa	ality.	what is the number?
U	С	Е	D	S	К	Н	Ρ	С	S	 It is less than 100.
E	Ν	Х	J	М	V	Η	С	В	Т	 It is a triangle number.
E	φ	Ρ	Μ	У	φ	S	0	W	0	
L	S	R	M	J 	S	N	U	M	J	• It is a square number.
	N	E	φ	U	A	L	1	I T	У	 It is an even number.
0	φ	с С	ĸ	ĸ	w	в	L F	י ר	v	
0	B	з т	П	ĸ	R	R		E V	7	
v	н	0	D	U	м	к	н	, F	N	
L	R	N	Z	U	Т	W	К	D	н	
N	0	Ι	т	А	U	Q	Е	S	φ	
0	0	Ζ	R	Н	0	R	W	Ε	v	@ + @ = #
										@ + # = 27
										What are the values of @ and #2
										what are the values of @ and #?
Case	v ha	s 78	p m	ade	սը զ	of 6 (coin	s.		d
Whee	م:د	f		, na la			-f -		aguld	
she h	i ave	rerei ?		mb	IIIali	ons	01 0	ouns	could	Fit the numbers 1 to 9 into the grid so \searrow
										that each row and column adds to the
										same total.
Teach	er Co	mme	ent							

Activity 4

join dots to complete these quadrilaterals -

where there are options, try to find the one on the grid with the largest possible area





Teacher Comments

<mark>Activity 5</mark> Reasoning

<u>1</u>

Mina buys 3 pizzas and a bottle of cola.



A pizza costs £3.20 more than a bottle of cola. The total cost of the items is £19.40 How much does a pizza cost?

<u>2</u>

In a test Freya scores 25% more marks than Eva. Eva scores 50% more marks than Dominic. In total the three children score 140 marks. The test is out of 80. What percentage does Dominic score in the test?

<u>3</u>

Work out the value of B.



The mass of an empty jar is 470 g.



6 marbles are placed in the jar.



The total mass of the jar and marbles is now 1.1 kg.

Two of the marbles are removed.

What is the mass of the jar and marbles now?

<u>5</u>

The pie chart shows the number of visitors to a museum each day.



How many people visited on Friday?

Ten trees are planted in a row.



The trees are spaced out equally.

The distance between the fourth and sixth tree is 8 metres.



What is the distance between the first and last tree?

<u>7</u>

Here is a 3 x 3 grid with some shapes in.



Each shape represents a number.

The sum of each row is shown at the right of the table.

Find the value of each of the shapes.

Letter Tiles

Your aim is to find the two boy names and the girl name which can be made from the tiles.

Here are some letter tiles and their values from a word game.

The tiles are used to create two boys and one girl's name.

If you add up the total scores of the letters in the three names the answer is 39.

All the names are different, but what are they?

Clues:

- The name of the girl has the same number of letters in it as one of the boys' names.
- If you add together the first letters of the boys' names, the answer is 16.
- The girl's name scores 5 in total.
- Both boys' names have the same scores.
- In all of the names, there are seven letters that score 1.

Α,	B ₃	C ₃		Ε,	F₄
G ₂	H	\mathbf{I}_{i}	$\mathbf{J}_{_{8}}$	K 5	L,
M ₃	Ν,	0,	P ₃	Q ₁₀	R ₁
S ₁	Τ,	U,	V,	W ₄	X ₈
Y ₄	Z ₁₀				

Use the information provided by the clues above and work out which of the following names fit the criteria:

Aisha	Walt	Zak	Xavier	Xabi	Jeana
Sam	Jacques	Jay	Tina	Joe	Dot
Yvonne	Zachary	Queenie	Jayden	Joachim	Xabier
James	Gabi	Quentin	Gina	Zebedee	Jack
Yanis	Zephaniah	Finn	May	Yeng	Xerxes

Activity 6 Numeracy and Literacy



A Titanic Problem!

Below is a mostly fictitious account of what may have occurred during the fated voyage of The Titanic. I have created some facts that are unlikely to be accurate but they will allow us to explore a huge amount of maths later. I would like you to read and also enjoy the story but at the same time, with your maths heads on, think about the potential questions I am going to ask you! Ship ahoy!

I looked at my watch; it was 11.15 am on Wednesday, April 10th 1912. Voyage day. I could see the colossal yet somehow beautiful vessel as I made my way through the bustling crowds of Southampton. I could see all four funnels; they were the first feature I recognised. I had done my research and I knew that each of them was 19m in height. With great excitement, I ran the final mile or so and made my way to my cabin.

After I left my luggage in my room I went on a quick exploring mission. I stumbled across the passenger list and even though I knew I shouldn't have done, I stole a quick peep at it. In total there were 1300 passengers on board, surely I would find a friend among them. I looked a little further into the list and learned that there were 319 first class passengers and 272 second class passengers. I was about to see how many 3rd class passengers there were but I heard the engine kick into life so I made my way up the deck!

We set sail at noon and headed to Cherbourg in France to pick up some additional passengers. We arrived in France at around 6.30pm. I knew the next stop was going to be Queenstown in Ireland so, after a quick bite to eat and a chinwag with some fellow passengers, I decided to get some sleep. My cabin was impressive, far more luxurious than any place I had ever stayed in. We were in bunk beds and in my room there were 4 of us in total. I took top bunk! We had a small amount of wardrobe space and a sink that served cold water. The four of us unpacked and, being a nosey so and so, I watched them all individually. I made a mental note of all their belongings in case any of them had the idea of pinching my gear. Here is what they carried.

Name	Country	Clothes
Michael	England	3 trousers 6 pants
		3 shirts 6 socks
Sammy	Scotland	4 trousers 7 pants
		5 shirts 7 socks
Catherine	Wales	9 trousers 10 pants
		5 shirts 4 socks
Ме	England	6 trousers 2 pants
		4 shirts 2 socks

I know what you are thinking; I should have packed more pants!

I had a great night of sleep and I woke up at 11.30am, just as The Titanic was reaching Ireland. I inhaled the clean sea air and decided to explore the ship with increased attention. It truly was amazing. As I strolled along the decking I noticed a girl of about 13 counting the lifeboats, I was curious by this and decided to go and speak to her.

"Hi, my name is Luke; can I ask what you are doing?" I began. The girl replied without turning her head.

"Hi Luke, my name is Nicole and I'm just doing some research. I know by the plans that there is space for 64 lifeboats but I can only count 20. I heard a rumour that they have reduced the amount of lifeboats to make the decks look less cluttered. If you want my opinion, they're asking for trouble."

"They say this ship is unsinkable, I'm sure we'll be okay and even if we have an accident, don't you think 20 life boats is enough?" I asked nervously.

"My maths isn't my strong point but I know that the wooden cutter lifeboats can hold 40 people each and there are 2 of them. There are 14 wooden lifeboats and they can hold 65 people and, if I'm not mistaken, those 4 life boats over there are the collapsible type and they can carry 47 passengers each. With all the crew as well as the passengers, I'd say it'll be pretty close."

I left Nicole to her calculations and continued to walk. All of this exercise made me a little peckish so I ducked in to investigate the food provision. I was shocked at what I saw! There were stores and stores of the most glorious foods my eyes had ever seen. I stopped one of the chefs who was on a fresh air break and asked him about the stores of food on board. I could not believe my ears!

"Well me laddy, you won't believe what I'm about to tell you but I've never told a lie in me life, here's the facts plain as day for you. This 'ere ship has over 2 tonnes of sausages, 40 tonnes of potatoes and a tonne of ice cream. That's not everything; we're also carrying 5,000kg of fish and 40,000 eggs. 36,000 apples and about 1,000 loaves of bread. To wash all of that down we have 14,000 gallons of water! There's no need to go hungry aboard this ship let me tell you."

I had to agree with the chef, there was certainly a huge feast to be had. During the next 2 days, not a great happened to be honest – we sailed through beautifully calm waters and I got in to a routine to help me pass the time. Between the times of 4.00pm on April 12th and 6.00pm on April 14th (a total of 50 hours) I spent my time enjoying the following activities;

Activity	Time (hours)	Activity	Time (hours)
Sleeping	18	Chatting	3
Playing Cards	4	Day Dreaming	1
Eating	2	Gambling	10
Walking	7	Ice Berg Watching	5

I decided to have a little walk around the ship and I overheard a conversation between two very important looking people. I didn't catch all of it but I kept hearing the word "seven" being repeated over and over again. I listened a little closer and learned that our ship had received seven warnings of ice bergs in our path. I felt a little concerned but mostly relieved that we were aware of any danger and could make all necessary plans to avoid it.

I bumped into my old chef friend who had the responsibility to prepare the dessert for the evening meal – he dropped the recipe on the way past to me and as I reached down to pick it up for him I had a quick look at what we were having. My mouth watered in anticipation, here it is...

Strawberry Chees	<u>ecake</u>
250g digestive biscuits	100g butter
600g soft cheese	200g sugar
350g double cream	400g strawberries
25g icing sugar	120g magic
This recipe will make enough cheese	cake to serve 5 people

I thought it would be a good idea to work up an appetite so I would enjoy my dessert more. You may not believe this but Titanic had a 1st class gym on board, I had to pay 1 shilling for my session but the quality of the equipment on board made that cost seem minimal. Here is a percentage break down of how long I spent on each machine;

Rowing Machine (30%)	Cycling Machine (15%)
Free Weights (20%)	Stretching (5%)
Electric Camel (25%)	Cool Down (5%)

I quickly got changed and started to head back to my cabin. I chatted with my roommates and looked at my watch; it was just past 11.30pm so we left our room and headed to the dining hall.

B00000000M!

The noise was immense and the entire ship shook. Everybody stopped dead in their tracks and several people fell over. What could that have been? Thunder? A collision? I decided the best place for me was up on deck so I battled my way through the crowds and got to the top deck. What I saw froze me to the core. A huge ice berg was behind us and there was already 14 feet of water on the ship. "Did we hit that ice berg?" I asked a fellow passenger.

"We sure did, I was up here when it struck, this is really bad news. That ice berg was 93 feet above the water." She replied.

"That doesn't sound so bad," I continued naively.

"Not too bad," she continued, "not too bad? You know that you can only see about 1/8 of an ice berg above the surface right? It's what's below the ocean that worries me."

For the first time since the collision I sensed panic. At 12.05am the orders were given to start unpacking the lifeboats and about 37 minutes after this the first lifeboat carrying women and children was loaded. I knew that particular lifeboat could carry 65 people but I only counted 28 inside. That made no sense to me at all.

The final lifeboat left the ship around 2.05am, leaving 1,500 of us on board. What would we do? At 2.17am the final radio message from the captain was announced, it was simple, 'every man for himself!' For 2 hours we all fought for our lives, the ship snapped almost in half and the part I was on bobbed for a short while before filling with water and finally sinking into the sea. It was perishing, like daggers stabbing every part of my body. I didn't think I would ever make it. Just as I was losing all hope I made out a ship approaching. Through my frozen eye lids I read the name, "Carpathia." I remember being scooped out of the ocean and wrapped in a blanket, I was saved. We left the area at 8.50am and headed towards New York where we docked 3 days later at 9.17pm. Everyone wanted to know about the disaster and how we survived, I didn't want to talk to any of them. I just wanted to forget about this harrowing experience and start a brand new life.

The Titanic sank on April 15th, 1912 and the wreck was discovered on September 1st, 1985. They discovered that the ship had split apart and the two sections lie approximately 0.62km away from each other on the sea bed.

That's the end of my story. Remember, some of the story is fact and some of it is fiction. Scan through the details again and make a list in the box below of all the facts that you think <u>might</u> be true.

All of the following questions use facts and details from the story.

Question 1

If all of the funnels were stacked on top of each other, how high would they be?

Question 2

How many 3rd class passengers were on board Titanic?

Question 3

How many **minutes** did it take to travel from Southampton to Cherbourg?

Question 4

- a) How many of each item of clothes did all the roommates pack?
- b) How many items were packed in total?

Question 5

a) How many more life boats could Titanic have carried?

b) If all of the lifeboats on board were full up, how many passengers would fit in to them?

Question 6

Here are the (made up) modern day costs of the food items on board.

Sausages - £18.50 per tonne Potatoes - £8 per tonne Ice Cream - £11 per tonne

Fish - £3 per KG Eggs - £6 each Apples - £2 each Bread – 50p per loaf

a) Use these details to calculate the costs of each individual item of food.

b) How much would it cost to buy all of the food?

c) If ¾ of the water is drank – how much is left?

Question 7

What percentage of the 50 hours between April 12th and April 14th was spent completing the various activities listed? Check that your answers total 100%.

Question 8

The recipe for strawberry cheesecake will serve 5 people. Recalculate and rewrite the ingredients so you could make the cheesecake for a) 10 people and b) 13 people.

10 people 13 people	

Question 9

If I spent 120 minutes at the gym, how long (in minutes) would I have spent on the various machines?

Question 10

If the passenger was correct about the size of the ice berg and the fraction you can see above the water, how big was the ice berg in height?

Question 11

What time was the first lifeboat launched?

Question 12

How many minutes did it take the Carpathia to travel to New York from the sinking area?

Question 13

How far away, in metres, were the two sections of Titanic?

Teacher Comments

<mark>Activity 6</mark>

Egil Skallagrímsson was a Viking poet, warrior and farmer. This is the (mostly fictional) account of his life.

In his early days Egil was a mischievous so and so. He would watch his father and his older brothers leave on raids and would spend the time when they were away terrorizing his mother. He was asked to clear the soot off the walls of their longhouse, a task he was not happy about completing. The walls of the long house totalled 124 square feet. It took Egil 3 minutes to clean 1 square foot. He was in for a lot of cleaning!!!!!

The next day Egil was practicing his duelling when a local boy named Grimm challenged him to a fight. Egil was only 7 at the time and he knew that Grimm, a much older boy, had a fearsome reputation. However, Egil had been practicing his skills every day for 6 weeks and felt fairly confident of taking this older boy on. It was an epic encounter, blow after blow was traded. After 5 minutes of fighting, Egil had landed 68 successful hits and Grimm 52. The fight lasted a further 4 minutes and by that time Egil had landed a total of 135 successful blows. The final of these was truly savage; he drove an axe, which he had been hiding directly through Grimm's head. That, as they say, was that! From that day on, nobody ever asked for Egil's lunch again.

Several years passed and on Egil's 13th birthday all of his commitment to learning the skills of a warrior were rewarded. His brother recruited him for his first mission. Prior to leaving they had to build a longship for the journey. Egil was asked to find the materials for the boat so off he went to collect the appropriate resources. He was asked to collect;

4 Oak trees for the keel

44 planks of wood for the strakes

32 planks of wood to make the oars

16 blocks for possessions

8 oak trees for the mast

4 sails

(This would be enough materials to build 4 longships)

He was, indeed, a busy boy.

The boat building was a gloriously easy affair. They were soon setting sail and heading towards England. . .

Egil's longship was called 'The Surging Serpent' and it raced across fjords and seas and made it to England in 9 and a half days. They arrived on the shores near a monastery in Lindisfarne. Egil and his fellow Vikings leapt ashore and began their ruthless attacks. In total there were 8 Vikings. The monks did not stand a chance, never did they believe their Christian home would come under such an attack and they were completely under prepared. The Vikings plundered their way through, collecting a huge variety of loot. Mostly precious metals and stones, as well as human beings to be sold as slaves. However, they did leave behind a couple of sacred scriptures that would have been worth a huge amount. All in all they plundered 928 items and then returned the 547 miles to Norway.

Egil spent the next few years writing poetry and fighting, you see he was a man of great conflict. He began his classic piece, Egil's saga. He wrote the first 534 pages. Quite an accomplishment for such a savage warrior. He also became an excellent player of Kings – winning 3/5 of all the games he played.

Egil became increasingly bored with his life, and no wonder, he had been used to a life on the seas, raiding settlements and enjoying post plunder parties with his friends, below is a break down of how he spent his time each day between raids;

- 2 hours eating
- 6 hours writing poems
- 5 hours -building or maintenance
- 9 hours sleeping
- 2 hours looking for fights

Egil's life was made a little more exciting by the news that a 'world championship of kings' was about to take place. Egil was, by now, a very skilled player and he had to play 10 games every day. The next 10 numbers are how many games Egil won each day; (8, 9, 7, 10, 8, 5, 4, 8, 10, 9) With such a great record Egil got as far as the final – here he was beaten by Grimm's older brother, Dimm. In retaliation to Dimm's excessive celebrations, Egil ended his worthless life. You'd think the family would have learned by now...

The excitement of the tournament quickly faded and Egil knew he had to make a life choice and, without knowing it, a war was about to break out within the land he first plundered that would change his life forever...

1a) How many minutes would it take Egil to clean the entire longhouse?

1b) How long is this in hours and minutes?

1c) How long would it have taken to clean;10% 25%

70%?

2a) How many days had Egil been practicing for?

2b) To become a Viking, you have to train for 324 days. How many more days has Egil got to train?

- 2c) After 5 minutes of the fight, how many blows had been landed in total?
- 2d) During the first 5 minutes, how many more blows had Egil landed than Grimm?
- 2e) As a mean average, how many blows did Egil land per minute?

- 3a) Egil collected enough materials to build 4 longships, how much of each material would he have needed to build;
 - a) 2 long ships b) 8 long ships

c) 1 long ship

d) 13 longships

3b) The current cost of the materials used to build a longship are; \pounds 13.43 per oak tree, 89p per plank of wood, 76p per block, \pounds 34.28 for a sail. What would be the cost of all the materials to build the required 4 longships?

4a) How many hours did it take to travel to Lindisfarne?

4b) How far in total was the round trip to Norway? If 8km are approximately 5miles, what is this distance in km?

5a) If Egil kept 130 pieces of treasure for himself and the remainder of the treasure was divided equally between the remaining men, how much loot would they each receive?

6a) So far Egil has written 20% if his saga – how many pages will there be when it is 50% completed? 75% finished? 100% finished?

7a) If Egil played 420 games of Kings, how many did he lose?

8a) what percentage of a day did Egil spend doing the various activities? Hint: work out what 1 hour would be as a percentage of an entire day. Use a calculator if necessary.

9a) what is the median, mode, mean and range average of Egil's Kings results?

10. GO AND LEARN HOW TO PLAY KINGS!!!

Use google and type in : Hnefatafl online

It's the 1st link you see! Play on the 9x9 grid and start on the 'easy' setting.

Enjoy!

If you pick up any tactics or advice, share it with us.

Teacher Comments

Activity 7

Do you know all your times tables?

72 ÷ 12 =	64 ÷ 8 =	45 ÷ 9 =
121 ÷ 11 =	45 ÷ 5 =	8 × 9 =
42 ÷ 7 =	63 ÷ 7 =	27 ÷ 3 =
72 ÷ 8 =	18 ÷ 3 =	56 ÷ 8 =
54 ÷ 9 =	30 ÷ 6 =	9 × 9 =
35 ÷ 7 =	6 × 9 =	36 ÷ 6 =
48 ÷ 8 =	7 × 8 =	40 ÷ 4 =
8 × 8 =	49 ÷ 7 =	8 x 6 =
32 ÷ 8 =	4 × 8 =	32 ÷ 8 =
27 ÷ 9 =	81 ÷ 9 =	6 x 7 =
28 ÷ 7 =	32 ÷ 4 =	63 ÷ 9 =
4 × 9 =	28 ÷ 4 =	7 x 9 =
54 ÷ 6 =	63 ÷ 7 =	28 ÷ 7 =
48 ÷ 6 =	56 ÷ 8 =	8 × 7 =

Teacher Comments

Can you use a calculator?

Be the Boss!

B CA	RUNCH		Methoreate Automotion Innovertion
Type 5508 i What are yo	into your calculator and tu ou? 805	rn it upside down. S	
Your challer Be creative	nge is to find 10 different v and find the most interest	ways of creating 55 ting way to write B	508 using the calculator. OSS.
Your challes Be creative	nge is to find 10 different v and find the most interest	vays of creating 55 ting way to write B	508 using the calculator. OSS.
Your challer Be creative	nge is to find 10 different v and find the most interest	ways of creating 55 ting way to write B	508 using the calculator. OSS. using only one of +, -, x and + using a combination of + and - with x and +
Your challer Be creative	nge is to find 10 different v and find the most interest 2 4 6	vays of creating 55 ting way to write Bi Green Amber	using only one of +, -, x and + using a combination of + and - with x and + using brackets (or careful use of order of calculations and =)
Your challer Be creative	nge is to find 10 different v and find the most interest 2 4 6 8	vays of creating 55 ting way to write B Green Amber Red	508 using the calculator. OSS. using only one of +, -, x and = using a combination of + and - with x and + using brackets (or careful use of order of calculations and =) using a mixture and possibly squares and

Aim of the game

To create different calculations which equal 5508 and to be as creative as possible with the numbers and operations (+ $-x \div \sqrt{-}$ etc.)

The Day the Numbers Left



Aim of the game

To work out what to enter into the calculator so that the answer is the number that you need to write in the green box

Order, Order!

CRUNCH	
$2 \times 100 - 60 + 40 \qquad 2 \times 100 - 40 + 60$ Which symbol goes between these two expressions: < > or = Can you use brackets to find ways where each symbol could be used? () Is there more than one way to do it? $2 \times 100 - 60 + 40 > 2 \times 100 - 40 + 60$ $2 \times 100 - 60 + 40 > 2 \times 100 - 40 + 60$	
$2 \times 100 - 60 + 40 < 2 \times 100 - 40 + 60$ $2 \times 100 - 60 + 40 = 2 \times 100 - 40 + 60$	

Aim of the game

To use brackets in different places and the rules of BODMAS to change the value of an expression (a calculation without an = sign*).

For example, $(2 \times 100) - 60 + 40 = 180$ but $2 \times (100 - 60) + 40 = 120$

Mystery Number

CRUNCH	
 What could this number in your display mean and how might it have got there? What would it mean if it was: Time – days, hours, minutes, seconds Money Length Mass Capacity or 12.5 could be: 	?

Aim of the game

To work out what 12.5 might mean as the answer to a problem.

Calculators are great at doing calculations, but they don't always tell us what the answer means. The answer the calculator has given us is 12.5 but what could that mean?

Take 5 (Keys)

CRUNCH	
Choose 3 digit keys and 2 operation keys e.g. 5 6 8 + - You can always use the = key Can you make all the numbers from 1 – 20 using only these keys? You can use the keys as often as you want each time. I used these keys:	1 2 3 4 5 6 7 8 9 5 10 10 11 12
Things to think about Can you use the difference between the numbers to help? Can the way you made a number before help you this time? Extra challenge What if you 'Take 4' and use 2 digits and 2 operations?	13 14 15 16 17 18 19 20

Aim of the game

To create calculations to equal all the numbers from 1 to 20 but using only 3 digit keys and 2 operation keys. You can always use the equals key!

Half Way There!

CRUNCH	
Choose four numbers from 1 to 9: 1 2 3 4 5 6 7 8 9 Place them in the boxes to make a fraction. Which arrangement of your four numbers gives a value closest to a half?	
The four numbers I chose were: This arrangement is closest to a half:	
to get close to a hair you need to:	

Aim of the game

You are trying to make fractions which are as close to a half as possible.

Teacher Comments			

We are looking forward to seeing you in September.

Bring this booklet with you on your first day at High School and you will receive a 'Well done' certificate and 50 Premium Banking Points!