MATHS PASSPORT

My Name: _____

Hello you!

All the Maths teachers at AHS are really excited to meet you. Normally during the transition week we would find out a bit more about you and you would find out a bit more about us, and together we would do some Maths.

This booklet will allow you to get to know our Maths department a little better, do some fun activities and give you the ticket to cross the border into our school!

Archbishop Holgate's School
A Church of England Academy

Maths^2 Team

In the Maths department we have 15 teachers. Throughout this booklet you will find out about some of our favourite Maths related things and we will give you some helpful tips on being in secondary school. Look out for clues in activities to fill in the missing gaps. Can you find them all?

Miss McDonald (aka THE BOSS)

Favourite Number: 8

Favourite Mathematician: _ _ _ _ _ _ _ _ _ _

Top Tip: "Always ask if you are unsure of something. "

Miss Ladak

Favourite Number: 121

Favourite Mathematician: _ _ _ _ _ _ _ _ _ _

Top Tip: "Always challenge yourself and aim high!"

Miss Cooper

Favourite Number: ___

Favourite Mathematician: Majorie Lee Browne

Top Tip: "There is always someone to help if you need it!"

Mr Dodson

Favourite Number: Graham's Number – the largest number that has a specific name!

Favourite Mathematician: Srinivasa Ramanujan

Top Tip: "Ask your teacher if there is something you don't understand. It's our job to help you."

Bright Sparks: Research what the Graham's Number is. What other interesting facts can you find out?

Miss Stevenson

Favourite Number: 100

Favourite Mathematician: _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _

Top Tip: "Join a club that involves something you've never done before."

Miss Parry

Favourite Number: 4

Favourite Mathematician: _ _ _ _ _ _ _ _ _ _ _

Top Tip: "When you sit next to someone, find out three things about them and smile."

Dr King

Favourite Number: ___

Favourite Mathematician: Grace Hopper

Top Tip: "The less you care about looking stupid, the smarter you will become."

Mr Walters

Favourite Number: 142857 (The Phoenix Number)

Favourite Mathematician: Matt Parker

Top Tip: "_____ "

Mrs Crabtree

Favourite Number: 1

Favourite Mathematician: Katherine Johnson

Top Tip: "Make the most of your time here. It'll fly!"

Mr McPaul

Favourite Number: ___

Favourite Mathematician: Paul Erdös

Top Tip: "Get involved in extracurricular activities! There are so many to choose from!"

Miss Milner

Favourite Number: ___

Favourite Mathematician: Katherine Johnson

Top Tip: "Enjoy all that AHS has to offer!"

Mr Pennock

Favourite Number: ___

Favourite Mathematician: Daniel Bernoulli

Top Tip: "Don't let problems snowball – stay on top of things."

Mrs Price

Favourite Number: ___

Favourite Mathematician: Argh! There are too many to choose from! Will go with Hannah Fry

Top Tip: "Always ask for help when you need it."

Miss Stocks

Favourite Number: 6

Favourite Mathematician: _ _ _ _ _ _ _ _ _ _ _ _

Top Tip: "Never say you can't do something. If you believe you can, you will be able to achieve things greater than yourself "

Mr Figon

Favourite Number: 2

Favourite Mathematician: Fibonacci

Top Tip: "*Don't be afraid to ask a questions*"

Mrs Wheatley

Mrs Wheatley is the irreplaceable member of our Maths family and supports the department brilliantly - creating resources, supporting students and even sometimes taking lessons!

Key Skills Week 6

You made it!!

CC

You're doing so well!

Key Skills Week 5

Key Skills Week 4

CC

Half way through now! Keep going!

CC

Key Skills Week 3

CC

Key Skills Week 2

You have officially departed! Colour in each step as you work your way through the booklet, and you will soon be at the entrance of AHS.

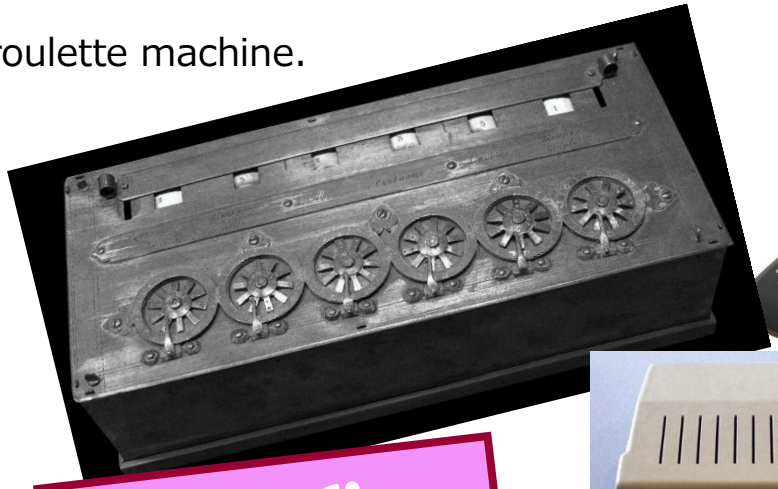
CC

Key Skills Week 1

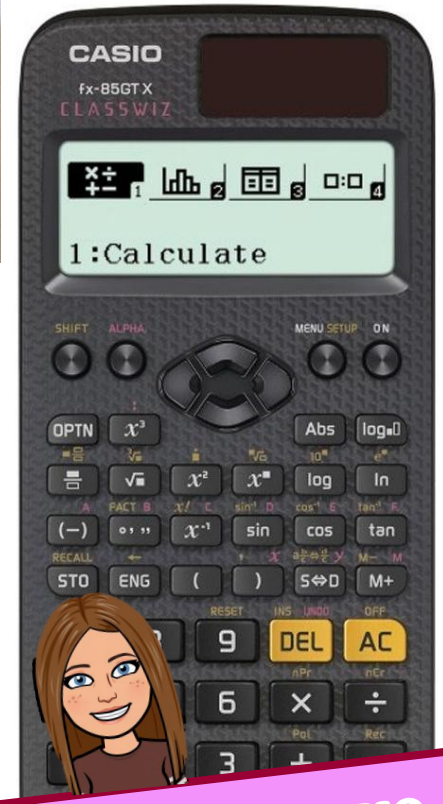
START HERE

The Calculator Transformation

Blaise Pascal, in his short 39 years of life, made many contributions and inventions in several fields. He is well known in both the mathematics and physics fields. In mathematics, he is known for contributing Pascal's triangle and probability theory. He also invented an early digital calculator and roulette machine.



Pascal's Calculator



The modern calculator can now be found everywhere, both mini and large versions and is embedded into devices such as laptops and mobile phones. **How many devices that have calculators can you find in your house?**

Clue 1 – Tip: What does Mr Walters want you to bring to your Maths lessons at AHS?

Calculator we use in school

Key Skills...

When you get a page like this, spend 20 minutes completing the Skills Check from Year 6.

Question 1 Write in figures : thirteen thousand, five hundred and two units	**Question 2** Write in figures : seventy seven thousand, eight tens and three units	**Question 3** List the factors of 51	**Question 4** List the factors of 36
Question 5 Work out 7 × 10 =	**Question 6** Work out 10 × 10 =	**Question 7** Simplify $\frac{8}{16}$	**Question 8** Simplify $\frac{12}{42}$
Question 9 Find 50% of £180	**Question 10** Find 25% of £120	**Question 11** Round 2084 to the nearest 100	**Question 12** Round 3372 to the nearest 10
Question 13 Work out 86 × 8 =	**Question 14** Work out 630 × 9 =	**Question 15** Simplify 5c + 5c + 6c	**Question 16** Simplify 10a + 2b + 8a + 7b
Question 17 Work out 39253 + 15736 =	**Question 18** Work out 30730 + 18364 =	**Question 19** Work out 8 × 2 - 5	**Question 20** Work out 6 + 11 × 3

SKILLS CHECK

Score

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CALCULATOR CRUNCH

Week 1

Be the BOSS!

MEI Mathematics Education Innovation

Type 5508 into your calculator and turn it upside down.

What are you? 8 0 5 5

Your challenge is to find 10 different ways of creating 5508 using the calculator.
Be creative and find the most interesting way to write BOSS.

1		2	
3		4	
5		6	
7		8	
9		10	

Green	using only one of +, -, x and ÷
Amber	using a combination of + and – with x and ÷ using brackets (or careful use of order of calculations and =)
Red	using a mixture and possibly squares and square roots

SHOW YOUR WORKING

Dr King's Favourite Number

Dr King loves a good puzzle. He would not tell me his favourite number but instead he has given me some clues. Can you work out what Dr King's favourite number is? Look at the clues below and shade in the numbers on the grid that apply to the statements.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Clue 2: Dr King's number...

1. is not a square number
2. is not a prime number
3. is a multiple of 2
4. is a factor of 24
5. is less than 10
6. has 4 as it's factor

Clue 3: Dr King was sneaky and told Miss Milner his favourite number. Miss Milner said that her favourite number is one less than Dr King's.

Key Skills...

When you get a page like this, spend 20 minutes completing the Skills Check from Year 6.

Question 1 Work out $\frac{5}{8}+\frac{1}{8}$	**Question 2** Work out $\frac{3}{7}-\frac{1}{7}$	**Question 3** Workout 1100 ÷ 100 =	**Question 4** Workout 10000 ÷ 1000 =
Question 5 Complete 100 mm = ... cm	**Question 6** Complete 60 mm = ... cm	**Question 7** Write in figures : Sixty three thousand, five hundred and nine units	**Question 8** Write in figures : five hundred, seven units and nine hundredths
Question 9 Find the missing number ? × 9 = 54	**Question 10** Find the missing number ? + 6 = 9	**Question 11** Work out 6971 - 6893 =	**Question 12** Work out 17172 - 6383 =
Question 13 Complete the equivalent fraction $\frac{5}{9}=\frac{25}{\square}$	**Question 14** Complete the equivalent fraction $\frac{2}{3}=\frac{\square}{33}$	**Question 15** Complete using < = or > -10 ? 0	**Question 16** Complete using < = or > -15 ? -16
Question 17 Work out 60 × 30 =	**Question 18** Work out 40 × 80 =	**Question 19** Express $\frac{3}{2}$ as a mixed number	**Question 20** Express $\frac{11}{3}$ as a mixed number

SKILLS CHECK Score ☐

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CALCULATOR CRUNCH

Week 2

The Day the Numbers Left

MEI Mathematics Education Innovation

Which calculation do you need to enter into the calculator to work out the missing number?

☐	÷	7	=	56
☐	–	18	=	52
43	+	☐	=	102
1920	=	☐	x	5 x 3
256	x	☐	=	4352

Remember to show the calculations you've done, rather than just the number.

Extra: Are there any that you can solve in more than one way?

If you enjoyed this activity then you might like: **Funny Factorisation** from NRICH (nrich.maths.org/740)

SHOW YOUR WORKING

Crack the Code...

Alan Turing was a British mathematician. He made major contributions to the fields of mathematics, computer science, and artificial intelligence. He worked for the British government during World War II, when he succeeded in breaking the secret code Germany used to communicate.

Can you crack the code to reveal the Maths teacher whose favourite mathematician is Turing?

A	B	C	D	E	F	G	H	I	J	K	L	M
55	47	84	10	9	75	59	64	32	15	23	50	26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
80	63	19	3	27	30	21	92	18	35	99	69	199

Clue 4!

	104 ÷ 4
	4 × 8
	90 ÷ 3
	18 + 12

	(2 × 3) + 24
	Half of 42
	3^2 x 7
	100 - 16
	Twenty-Three
	$\sqrt{25}$ × 6

Bright Sparks: Can you make up some calculations to spell out your name using the same code?

Key Skills...

When you get a page like this, spend 20 minutes completing the Skills Check from Year 6.

Question 1 Work out 624 × 15 =	**Question 2** Work out 571 × 40 =	**Question 3** Find the highest common factor of 108 and 84	**Question 4** Find the highest common factor of 28 and 210
Question 5 Work out $\frac{4}{10}+\frac{13}{20}$	**Question 6** Work out $\frac{4}{6}-\frac{7}{18}$	**Question 7** Round 3799 to the nearest 1000	**Question 8** Round 713 to the nearest 10
Question 9 Express 0.02 as a percentage	**Question 10** Express 38% as a fraction in its lowest form	**Question 11** Find 25% of £180	**Question 12** Find 25% of £48
Question 13 Complete using > or < 180120 ? 180220	**Question 14** Complete using > or < 665420 ? 665620	**Question 15** Work out the value of c - 5 when c = 9	**Question 16** Work out the value of a + 9 when a = 2
Question 17 Work out 7200 ÷ 80 =	**Question 18** Work out 360000 ÷ 900 =	**Question 19** Express as an improper fraction $2\frac{4}{5}=\frac{\square}{\square}$	**Question 20** Express as an improper fraction $1\frac{1}{4}=\frac{\square}{\square}$

SKILLS CHECK

Score

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Week 3

CALCULATOR CRUNCH

Half Way There!

MEI Mathematics Education Innovation

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?

$$\frac{\square\square}{\square\square}$$

The four numbers I chose were:

This arrangement is closest to a half:

$$\frac{\square\square}{\square\square}$$

To get close to a half you need to:

There are other number strategy games on the NRICH website (nrich.maths.org/1209/index)

SHOW YOUR WORKING

Maths & Science

Miss Stevenson's favourite mathematician is Professor Stephen William Hawking. Hawking's father wanted him to become a doctor, but Hawking wanted to focus on Mathematics. At the time Mathematics was not available for Hawking to study at University College, so he decided to major in Physics instead. Hawking studied the structure of the universe. He invented important theories about the Big Bang, black holes and made remarkable contributions to the field of Quantum Mechanics. Science and Maths are often interlinked. There are lots of keywords that we may use in both subjects. Can you find some of them?

Clue 5!

S	P	C	R	M	A	N	C	I	T	Y	A
M	I	D	E	O	T	O	G	I	A	D	N
T	R	A	H	C	E	I	P	M	R	V	N
M	P	V	L	T	N	T	E	A	M	E	B
I	O	I	O	I	R	A	N	G	E	A	A
E	A	D	A	A	N	L	N	P	D	Y	R
V	V	J	E	V	H	E	A	L	I	J	C
S	C	A	T	T	E	R	G	R	A	P	H
E	E	M	I	E	G	R	D	R	N	N	A
A	M	E	C	E	T	O	A	O	A	T	R
A	A	S	I	E	A	C	G	G	I	P	T
O	N	D	E	N	C	E	D	E	E	S	H

AVERAGE
BAR CHART
CORRELATION
LINE GRAPH
MEAN
MEDIAN
MODE
PIE CHART
RANGE
SCATTER GRAPH

Key Skills...

When you get a page like this, spend 20 minutes completing the Skills Check from Year 6.

Question 1 Find the lowest common multiple of 70 and 30	**Question 2** Find the lowest common multiple of 55 and 66	**Question 3** $7 \times 5 - 3$	**Question 4** $2 \times (12 - 6)$
Question 5 Work out $162 \div 9 =$	**Question 6** Work out $492 \div 6 =$	**Question 7** Find the next 2 terms in the sequence 41, 38, 35, 32,....	**Question 8** Find the next 2 terms in the sequence 42, 37, 32, 27,....
Question 9 Find 20% of £340	**Question 10** Find 5% of £360	**Question 11** Write down the value of the figure 4 in 41068	**Question 12** Write down the value of the figure 7 in 75064
Question 13 Express as a mixed number $\frac{7}{5}$	**Question 14** Express as a mixed number $\frac{17}{4}$	**Question 15** Simplify 44 : 4	**Question 16** Simplify 35 : 55
Question 17 Work out $331 \times 1000 =$	**Question 18** Work out $40.6 \times 10 =$	**Question 19** Complete using < = or > $\frac{6}{7} \quad \frac{3}{4}$	**Question 20** Complete using < = or > $\frac{8}{10} \quad \frac{6}{8}$

SKILLS CHECK

Score

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Week 4

CALCULATOR CRUNCH

ORDER, ORDER!

MEI Mathematics Education Innovation

$$2 \times 100 - 60 + 40 \quad \bigcirc \quad 2 \times 100 - 40 + 60$$

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?

$$2 \times 100 - 60 + 40 > 2 \times 100 - 40 + 60$$
$$2 \times 100 - 60 + 40 < 2 \times 100 - 40 + 60$$
$$2 \times 100 - 60 + 40 = 2 \times 100 - 40 + 60$$

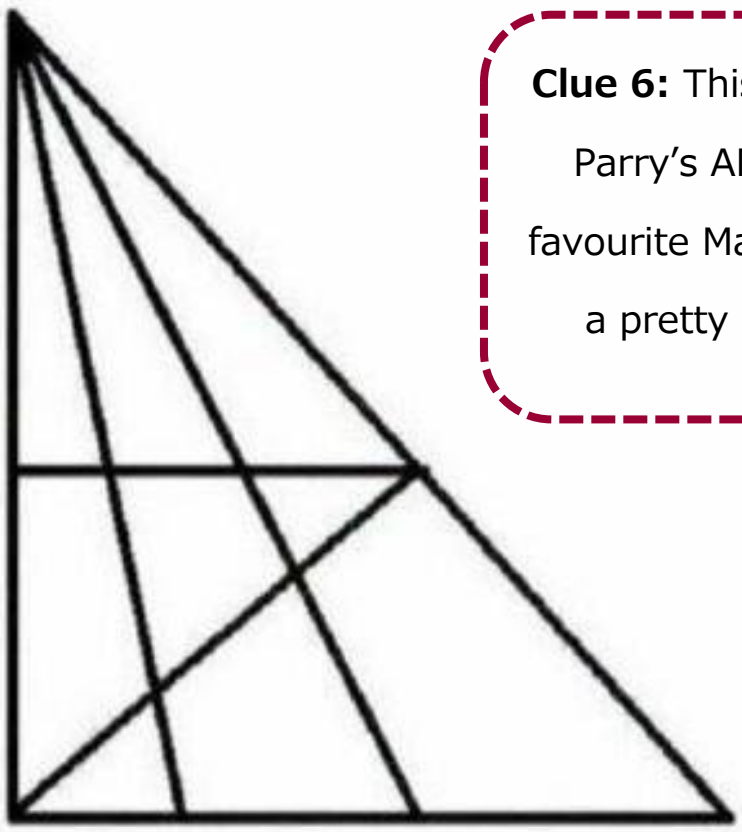
SHOW YOUR WORKING

All about the triangles...

Pythagoras of Samos was a famous Greek mathematician and philosopher (c. 570 – c. 495 BC). He is known best for the proof of the important Pythagorean Theorem, which is about right-angled triangles. He started a group of mathematicians, called the Pythagoreans, who worshiped numbers and lived like monks.

How many triangles do you see?

Be careful as this is not as easy at it looks (literally)!



Clue 6: This is Miss Ladak's, Miss Parry's AND Miss McDonald's favourite Mathematician (must be a pretty decent guy, huh?!)

Tip: Make sure you double check your answer. This is really important when you are doing any kind of Maths.

Key Skills...

When you get a page like this, spend 20 minutes completing the Skills Check from Year 6.

Question 1 Write in figures : six units, five tenths and nine hundredths	**Question 2** Write in figures : eight tens, four units and six hundredths	**Question 3** Work out $12 \times \frac{2}{7}$	**Question 4** Work out $9 \times \frac{2}{3}$
Question 5 Work out 149 ÷ 4 =	**Question 6** Work out 41 ÷ 8 =	**Question 7** Divide £54 in the ratio 11 : 7	**Question 8** Divide £9 in the ratio 2 : 1
Question 9 Round 0.66 correct to 1 decimal place	**Question 10** Round 19.6407 correct to 1 decimal place	**Question 11** Workout 31.2 ÷ 100 =	**Question 12** Workout 566 ÷ 1000 =
Question 13 Complete using < = or > $\frac{2}{5}$ 0.25	**Question 14** Complete using < = or > 80% 0.4	**Question 15** Complete 8 hours = ... minutes	**Question 16** Complete 420 seconds = ... minutes
Question 17 Work out 5 × 1.2 =	**Question 18** Work out 5 × 2.6 =	**Question 19** Work out $3\frac{1}{2} + \frac{2}{3}$	**Question 20** Work out $\frac{1}{2} + 2\frac{1}{5}$

SKILLS CHECK Score

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CALCULATOR CRUNCH

Week 5

Take 5 (Keys)

Mathematics Education Innovation

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:

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?

1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	

SHOW YOUR WORKING

Game of 24...

One of our favourite things to do on transition is to play the 24 game. The aim of the game is to be the first person to make the number 24.

For each game you have 4 numbers, you have to use ALL four numbers, you can add, subtract, multiply or divide these to make 24.

Example:

2 2 6 8

To make 24, I can do (8 - 2) x (6 – 2)

8 -2 = 6

6 -2 = 4

Now it's your turn! Make the number 24!

Clue 7: Mr McPaul's favourite number is 24 - 1

Clue 8: Mr Pennock's favourite number is 24 + 3

Clue 9: Mrs Price's favourite number is (24 ÷ 3) + 1

Clue 10: Miss Cooper's favourite number is 6^2 + 24 - 6

Key Skills...

When you get a page like this, spend 20 minutes completing the Skills Check from Year 6.

Question 1 Complete 660 seconds = ... minutes	**Question 2** What is the time 40 minutes after 1:15?	**Question 3** Work out $1\frac{3}{5}+1\frac{1}{4}$	**Question 4** Work out $2\frac{1}{3}+2\frac{1}{2}$
Question 5 Solve $x + 11 = 17$	**Question 6** Solve $x + 4 = 8$	**Question 7** Work out $8 \times 0.4 =$	**Question 8** Work out $11.7 \times 9 =$
Question 9 Find 20% of £660	**Question 10** Find 20% of £740	**Question 11** Work out $15.48 \times 100 =$	**Question 12** Work out $15.27 \times 10 =$
Question 13 Complete 1530 m ..... 3.57 km (< = or >)	**Question 14** Complete 1.66 km ..... 2280 m (< = or >)	**Question 15** Complete using < = or > 0.33 0.334	**Question 16** Complete using < = or > 0.347 0.35
Question 17 List the factors of 50	**Question 18** List the factors of 28	**Question 19** Work out $\frac{3}{5}\times\frac{2}{3}$	**Question 20** Work out $\frac{1}{3}\times\frac{1}{2}$

SKILLS CHECK Score

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Week 6

CALCULATOR CRUNCH

Mystery Number

MEI Mathematics Education Innovation

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:

SHOW YOUR WORKING

Massive Multiplication Challenge

	100																						
				36	18			34	16			38	24			48	26			28	40			30	44
		10											60		125								75	110
		18	99			36	144			27	63				225			45	207			54	189		
														1											
			66	108	54		96	102	48		42	114	72		150	144	78		138	84	120		126	90	132
		16		144		32		136		24		152				192		40		112		48		120	
							48		24	9	21		36		75							18	63		66
		14		126		28		119		21		133				168		35		98		42		105	
			44												100	96	52		92	56	80		84	60	88

Fill in the missing blanks.

The numbers across the top go from 1 to 25.

The numbers on the side go from 1 to 10.

ANSWERS to Key Skills

Week 1

Question 1 Write in figures : 13 thousand, five hundred and two units 13502	**Question 2** Write in figures : 77 thousand, eight tens and three units 77083	**Question 3** List the factors of 51 51, 17, 3, 1	**Question 4** List the factors of 36 36, 18, 12, 9, 6, 4, 3, 2, 1
Question 5 Work out 7 × 10 = 70	**Question 6** Work out 10 × 10 = 100	**Question 7** Simplify 8/16 1/2	**Question 8** Simplify 12/42 2/7
Question 9 Find 50% of £180 £90	**Question 10** Find 25% of £120 £30	**Question 11** Round 2084 to the nearest 100 2100	**Question 12** Round 3372 to the nearest 10 3370
Question 13 Work out 86 × 8 = 688	**Question 14** Work out 630 × 9 = 5670	**Question 15** Simplify 5c + 5c + 6c 16c	**Question 16** Simplify 10a + 2b + 8a + 7b 18a + 9b
Question 17 Work out 39253 + 15736 = 54989	**Question 18** Work out 30730 + 18364 = 49094	**Question 19** Work out 8 × 2 - 5 11	**Question 20** Work out 6 + 11 × 3 39

Week 2

Question 1 Work out 5/8 + 1/8 = 6/8	**Question 2** Work out 3/7 - 1/7 = 2/7	**Question 3** Workout 1100 ÷ 100 = 11	**Question 4** Workout 10
Question 5 Complete 100 mm = ... cm 10 cm	**Question 6** Complete 60 mm = ... cm 6 cm	**Question 7** Write in figures : Sixty three thousand, five hundred and nine units 63509	**Question 8** Write in figures : five hundred, seven units and nine hundredths 507.09
Question 9 Find the missing number ? × 9 = 54 ? = 6	**Question 10** Find the missing number ? + 6 = 9 ? = 3	**Question 11** Work out 6971 - 6893 = 78	**Question 12** Work out 17172 - 6383 = 10789
Question 13 Complete the equivalent fraction 5/9 = 25/? 45	**Question 14** Complete the equivalent fraction 2/3 = ?/33 22	**Question 15** Complete using < = or > -10 ? 0 <	**Question 16** Complete using < = or > -15 ? -16 >
Question 17 Work out 60 × 30 = 1800	**Question 18** Work out 40 × 80 = 3200	**Question 19** Express 3/2 as a mixed number 1 1/2	**Question 20** Express 11/3 as a mixed number 3 2/3

Week 3

Work out 624 × 15 = 9360	**Question 2** Work out 571 × 40 = 22840	**Question 3** Find the highest common factor of 108 and 84 12	**Question 4** Find the highest common factor of 28 and 210 14
Question 5 Work out 4/10 + 13/20 1 1/20	**Question 6** Work out 4/6 – 7/18 5/18	**Question 7** Round 3799 to the nearest 1000 4000	**Question 8** Round 713 to the nearest 10 710
Question 9 Express 0.02 as a percentage 2%	**Question 10** Express 38% as a fraction in its lowest form 19/50	**Question 11** Find 25% of £180 £45	**Question 12** Find 25% of £48 £12
Question 13 Complete using > or < 180120 ? 180220 <	**Question 14** Complete using > or < 665420 ? 665620 <	**Question 15** Work out the value of c - 5 when c = 9 4	**Question 16** Work out the value of a + 9 when a = 2 11
Question 17 Work out 7200 ÷ 80 = 90	**Question 18** Work out 360000 ÷ 900 = 400	**Question 19** Express 2 4/5 as an improper fraction 14/5	**Question 20** Express 1 1/4 as an improper fraction 5/4

Week 4

Question 1 Find the lowest common multiple of 70 and 30 210	**Question 2** Find the lowest common multiple of 55 and 66 330	**Question 3** 7 × 5 - 3 32	**Question 4** 2 × (12 - 6) 12
Question 5 Work out 162 ÷ 9 = 18	**Question 6** Work out 492 ÷ 6 = 82	**Question 7** Find the next 2 terms in the sequence 41, 38, 35, 32,.... 29 and 26	**Question 8** Find the next 2 terms in the sequence 42, 37, 32, 27,.... 22 and 17
Question 9 Find 20% of £340 £68	**Question 10** Find 5% of £360 £18	**Question 11** Write down the value of the figure 4 in 41068 40000	**Question 12** Write down the value of the figure 7 in 75064 70000
Question 13 Express 7/5 as a mixed number 1 2/5	**Question 14** Express 17/4 as a mixed number 4 1/4	**Question 15** Simplify 44 : 4 11 : 1	**Question 16** Simplify 35 : 55 7 : 11
Question 17 Work out 331 × 1000 = 331000	**Question 18** Work out 40.6 × 10 = 406	**Question 19** Complete using < = or > $\frac{6}{7} > \frac{3}{4}$	**Question 20** Complete using < = or > $\frac{8}{10} > \frac{6}{8}$

Week 5

Question 1 …hs and nine hundredths 6.59	**Question 2** Write in figures : eight tens, four units and six hundredths 84.06	**Question 3** Work out $12 \times \frac{2}{7}$ 3 3/7	**Question 4** Work out $9 \times \frac{2}{3}$ 6
Question 5 Work out 149 ÷ 4 = 37.25	**Question 6** Work out 41 ÷ 8 = 5.125	**Question 7** Divide £54 in the ratio 11 : 7 £33, £21	**Question 8** Divide £9 in the ratio 2 : 1 £6, £3
Question 9 Round 0.66 correct to 1 decimal place 0.7	**Question 10** Round 19.6407 correct to 1 decimal place 19.6	**Question 11** Workout 31.2 ÷ 100 = 0.321	**Question 12** Workout 566 ÷ 1000 = 0.566
Question 13 Complete using < = or > $\frac{2}{5} > 0.25$	**Question 14** Complete using < = or > 80% < 0.4	**Question 15** Complete 8 hours = ... minutes 480	**Question 16** Complete 420 seconds = ... minutes 7
Question 17 Work out 5 × 1.2 = 6	**Question 18** Work out 5 × 2.6 13	**Question 19** Work out $3\frac{1}{2} + \frac{2}{3}$ 4 1/6	**Question 20** Work out $\frac{1}{2} + 2\frac{1}{5}$ 2 7/10

SKILLS CHECK Score

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Week 6

Question 1 Complete 660 seconds = ... minutes 11	**Question 2** What is the time 40 minutes after 1:15? 1:55	**Question 3** Work out $1\frac{3}{5} + 1\frac{1}{4}$ $2\frac{17}{20}$	**Question 4** Work out $2\frac{1}{3} + 2\frac{1}{2}$ $4\frac{5}{6}$
Question 5 Solve x + 11 = 17 x = 6	**Question 6** Solve x + 4 = 8 x = 4	**Question 7** Work out 8 × 0.4 = 3.2	**Question 8** Work out 11.7 × 9 = 105.3
Question 9 Find 20% of £660 £132	**Question 10** Find 20% of £740 £148	**Question 11** Work out 15.48 × 100 = 1548	**Question 12** Work out 15.27 × 10 = 152.7
Question 13 Complete 1530 m ..... 3.57 km (< = or >) <	**Question 14** Complete 1.66 km ..... 2280 m (< = or >) <	**Question 15** Complete using < = or > 0.33 < 0.334	**Question 16** Complete using < = or > 0.347 < 0.35
Question 17 List the factors of 50 1, 2, 5, 10, 25, 50	**Question 18** List the factors of 28 1, 2, 4, 7, 14, 28	**Question 19** Work out $\frac{3}{5} \times \frac{2}{3}$ $\frac{2}{5}$	**Question 20** Work out $\frac{1}{3} \times \frac{1}{2}$ $\frac{1}{6}$

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From Miss McDonald:

Well done for getting this far! You have done brilliantly, and we cannot wait to see you in September.

Now you already know my favourite number but here is a little riddle for you:

How do you make one disappear?

(find the answer by turning this page upside down)

You add a **g** to it and then it's **gone**!