Welcome to Maths!

This booklet is to give you a bit of an insight into the skills you will use in Maths at St Peter's. You need to complete each section to the best of your ability and bring it with you in September to be rewarded!

Name………………………………………………Form……………

Great Mathematicians at St Peter's

To be really ready for secondary school, you have to practice the simple things;

Can you work out this Ninja's message?

MATH NINJA

Ninja Aki sends his secret messages through math problems.

Decode his message to you! First complete these math problems. Then match the answers up with the letters using the chart below.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
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

ex.)

```
   5 6          3 4          8 5
 + 9 3        - 2 0        + 1 6
 -------      -------      -------
 | 1 | 4 | 9 |  | 1 | 4 |  | 1 | 0 | 1 |
     1       2        3       4       5
```

N I N J A
1 2 3 4 5

```
  4 3        9 6        7 3        8 5        9 2
+ 4 2      - 8 4      - 6 1      + 7 3      - 7 7
-----      -----      -----      -----      -----
[    ]     [    ]     [    ]     [    ]     [   ]
 1   2       3          4        5   6       7
```

```
  1 2 5         6 8        5 1        5 9        4 9
+ 1 0 6     + 1 1 7      - 2 6      - 4 4      - 2 8
-------      -------      -----      -----      -----
[       ]     [     ]     [   ]      [   ]      [   ]
 8    9      10    11      12        13          14
```

___ ___ ___ ___ ___ !
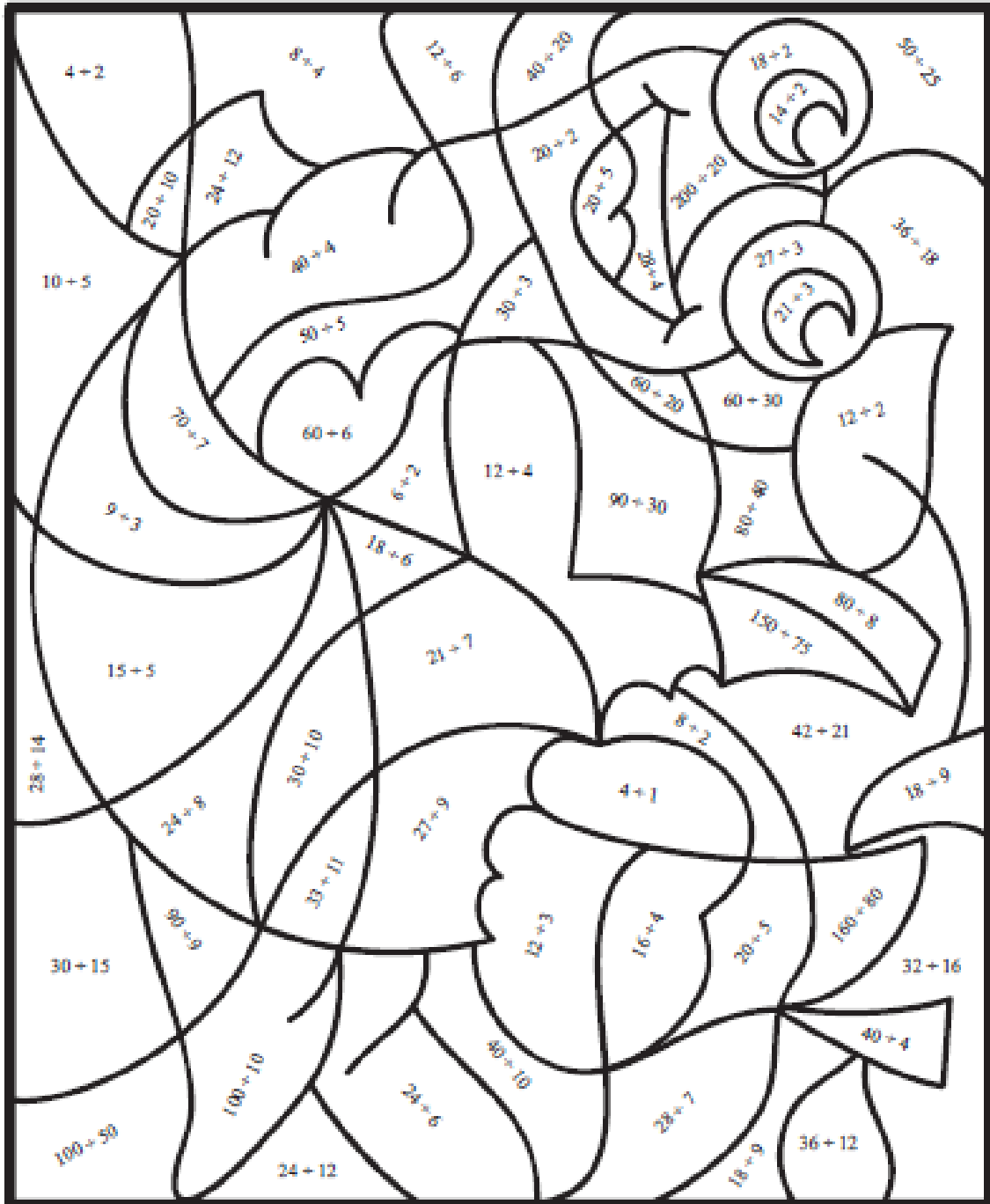 1   2   3   4   5

___ ___ ___   ___ ___ ___
 6   7   8   9   10 11

___ ___ ___ ?
12 13 14

Practicing your times tables is also really important, can you work out these?

Remember dividing is just using your times tables!

E.g. 4 × 6 = 24, so we know 24÷6 = 4 and 24÷4 = 6

$4 \div 2$ $8 \div 4$ $12 \div 6$ $40 \div 20$ $18 \div 2$ $50 \div 25$

$20 \div 10$ $24 \div 12$ $20 \div 2$ $14 \div 2$

$40 \div 4$ $20 \div 5$ $200 \div 20$ $36 \div 18$

$10 \div 5$ $28 \div 4$ $27 \div 3$

$90 \div 5$ $50 \div 5$ $21 \div 3$

$70 \div 7$ $60 \div 6$ $80 \div 20$ $60 \div 30$ $12 \div 2$

$9 \div 3$ $6 \div 2$ $12 \div 4$ $99 \div 30$ $80 \div 40$

$18 \div 6$ $80 \div 8$

$150 \div 75$

$15 \div 5$ $21 \div 7$ $8 \div 2$ $42 \div 21$

$28 \div 14$ $30 \div 10$ $4 \div 1$ $18 \div 9$

$24 \div 8$ $27 \div 9$

$33 \div 11$ $12 \div 3$ $16 \div 4$ $20 \div 5$ $160 \div 80$

$90 \div 9$ $30 \div 15$ $40 \div 10$ $32 \div 16$

$100 \div 10$ $24 \div 6$ $28 \div 7$ $40 \div 4$

$100 \div 50$ $18 \div 9$ $36 \div 12$

$24 \div 12$

Find the answer to each sum.
Now colour each area according to the Key below.

Key

| Blue	Light Green	Red	Dark Green	Black	White	Brown
2	3	4	6	7	9	10

Practice using your Equipment!

Everyone finds using new bits of equipment hard, so do a bit of practice and you'll find it much easier when you start using them in lessons!

Can you use a pencil and ruler accurately to complete this pattern and create a flower? When you are done you can add colour and make it look really good!
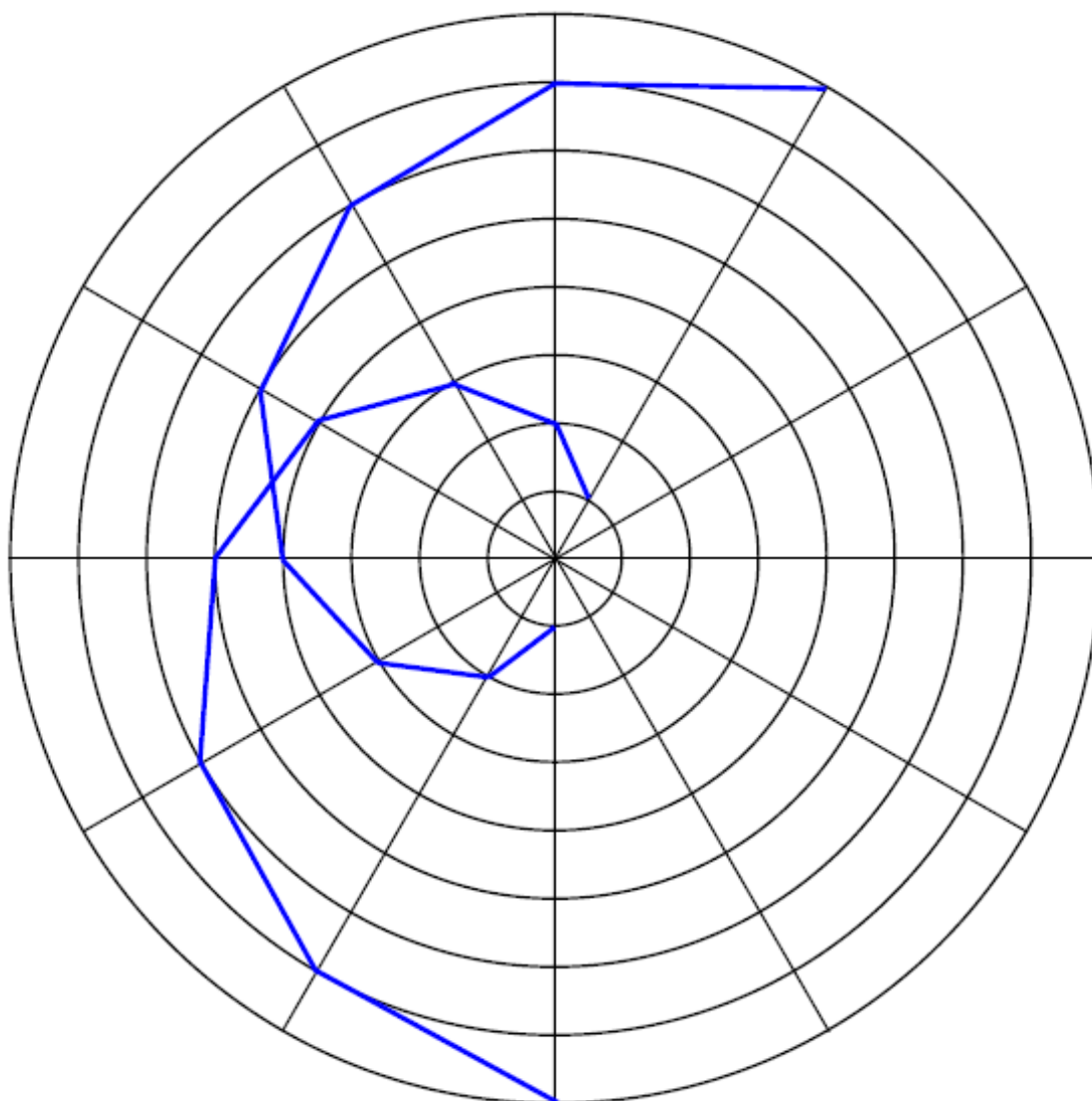
HINT; it should look something like this;
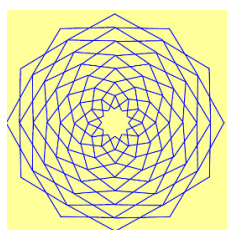
Independent Learning!

At St. Peter's we use lot of different maths websites to help with our homework and independent learning.

These often have videos on for you to watch. You are expected to make your own notes, then complete some questions: just like in class!

When you arrive in September you'll be given your very own login, but for now we want you to have a go.

1) Go to
   https://stpeters.npcat.org.uk/transition/year-6-tasks-to-do/

2) Find the maths page. There's a video on there on 'The Mode'.

3) A student has started to take notes from the video, but they aren't complete. Can you fill in the missing bits below? (You'll have to have sound on and listen!)

Definition:

The mode is a type of _____.

It is the _____ common number in a data set.

It could also be the most common word, _____ or letter, depending on the data!

Example (shown in video!):

| 3 | 8 | 8 | 8 | 9 | 9 | 10 | 12 |

The mode of this data set is _____.

4) Now see if you can answer these questions!

Questions:

a) Find the mode of this data set:

   3   4   4   6   7   7   7   11

                              Mode = _____

b) Find the mode of this data set (hint: remember that the mode can be a word!):

   Red, Blue, Red, Green, Blue, Red

c) Can you come up with a data set of six numbers that has a mode of 12?

   ___ , ___ , ___ , ___ , ___ , ___

5) Extension: Can you come up with your own question using the mode?

_____

_____

_____

_____

Types of Number

Throughout primary school you will have learned about different types of numbers. You will need that knowledge in secondary school.

Colour the Numbers Puzzle

Colour the numbers in each column that match the description with RED

Colour the ones that don't match the description with BLUE

EVEN Numbers has been done for you.

64	7	67	48	1	2	37	60	81	67	5	52	29	96	8	9	91
96	24	15	73	81	8	63	72	15	38	45	62	27	41	12	18	48
18	6	47	39	8	6	91	96	72	9	15	76	89	32	46	45	36
27	12	85	83	36	12	57	48	24	79	9	82	33	54	37	6	64
75	4	42	54	30	24	39	36	48	67	18	36	25	81	90	5	97
20	28	87	81	64	4	37	84	32	45	48	92	61	78	1	30	73
8	3	51	56	99	16	75	52	60	37	35	26	99	63	72	12	67
36	14	53	72	27	3	23	24	49	83	24	64	43	38	64	15	42
Square number	Factors of 84	Prime Numbers	Multiples of 3	Cube Numbers	Factors of 48 and 60	Prime Numbers	Multiples of 4 and 3	Square number	Odd Numbers	Factors 120	Multiples of 4	Prime Numbers	Even Numbers	Cube Numbers	Factors of 90	Multiples of 7

If you need a bit of help you can research the answers; ask someone at home, use any revision guides from year 6, or use the internet.

Design a clock

The numbers on a clock go from 1-12, but we want you to design an unusual clock. Instead of numbers can you create maths calculations, with the answers of the numbers that should be in that position. For example, instead of putting 12 on the top notch, I could put 3 x 4 instead. How creative can you be?
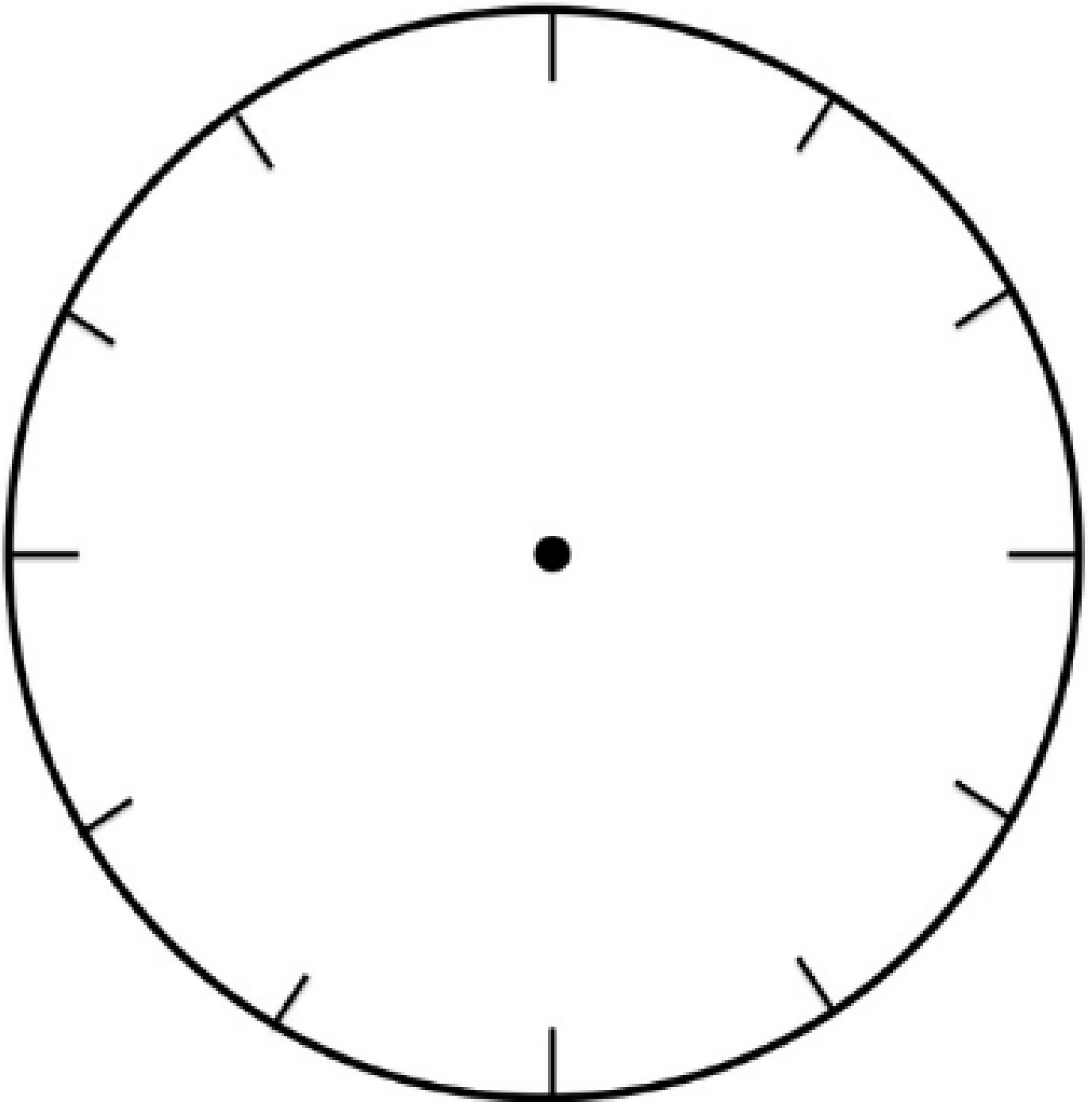
Maths Challenge – Your Choice!

In Maths at St Peter's we will make sure you as a learner are always challenged. You might be asked to complete a challenge question, or a challenge homework, but this time we are asking you to set the challenge!

We want you to show us your favourite topic within Maths. You can make a poster, a leaflet, or even a video, showing us what you enjoy doing in your Maths lessons. We want you to use your imagination and show us how creative you can be with the way you present your ideas. You might want to choose a topic that hasn't been covered already in this booklet – for example shape or angles.

We look forward to seeing them in September!