



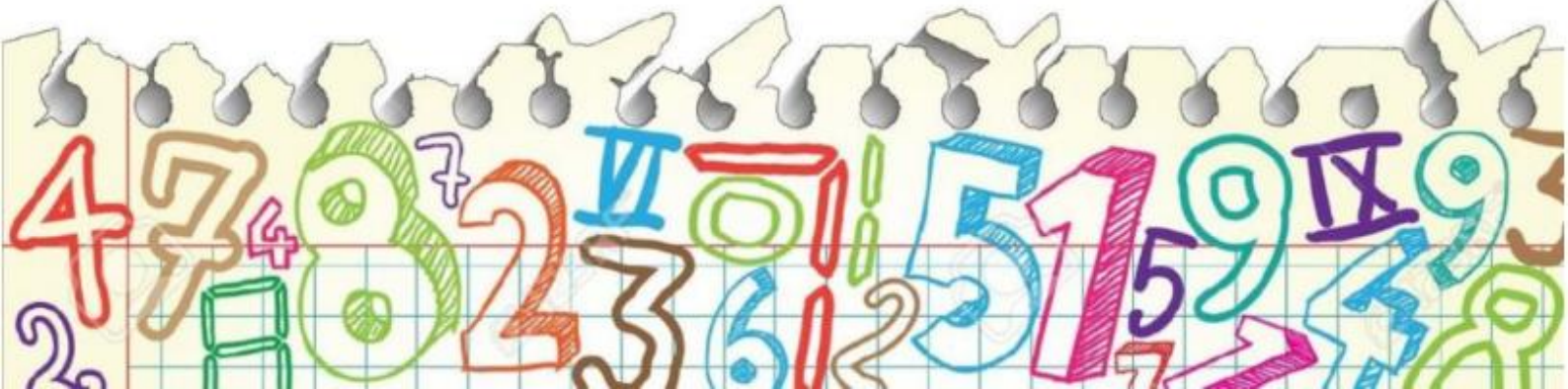
Year 6

Transition

MATHS

2020

Name:





Dear Year 6

Welcome to Oakgrove School **Maths** Department!

In preparation for joining us in September, as Year 7 students, we have put together this booklet as a taster of some of the topics you can expect to be studying with us at secondary school.

We hope you enjoy working through the activities in this booklet. Remember to bring your completed work with you in September so you can impress your new Maths teacher!



Times – tables are the most important skill to master in Maths as you will need them in every area of Maths from Fractions to Pythagoras!

Without using a calculator, time yourself to see how long it takes you to complete the questions below.

(1) $5 \times 8 =$

(18) $18 \div 2 =$

(35) $28 \div 4 =$

(2) $4 \times 8 =$

(19) $6 \times 6 =$

(36) $12 \times 9 =$

(3) $99 \div 9 =$

(20) $20 \div 10 =$

(37) $2 \times 3 =$

(4) $66 \div 6 =$

(21) $8 \times 5 =$

(38) $33 \div 3 =$

(5) $66 \div 11 =$

(22) $12 \div 3 =$

(39) $9 \times 7 =$

(6) $48 \div 8 =$

(23) $15 \div 5 =$

(40) $12 \times 6 =$

(7) $21 \div 3 =$

(24) $12 \times 8 =$

(41) $10 \times 5 =$

(8) $30 \div 10 =$

(25) $7 \times 8 =$

(42) $27 \div 9 =$

(9) $7 \times 2 =$

(26) $10 \times 2 =$

(43) $9 \times 3 =$

(10) $90 \div 9 =$

(27) $84 \div 12 =$

(44) $2 \times 5 =$

(11) $12 \times 5 =$

(28) $55 \div 5 =$

(45) $3 \times 12 =$

(12) $12 \times 7 =$

(29) $2 \times 7 =$

(46) $2 \times 9 =$

(13) $40 \div 8 =$

(30) $9 \times 4 =$

(47) $35 \div 7 =$

(14) $11 \times 3 =$

(31) $2 \times 9 =$

(48) $9 \times 4 =$

(15) $80 \div 10 =$

(32) $45 \div 5 =$

(49) $55 \div 11 =$

(16) $72 \div 12 =$

(33) $7 \times 11 =$

(50) $10 \times 3 =$

(17) $36 \div 3 =$

(34) $11 \times 7 =$

Time:

4 Operations.

No calculators allowed! Show us your written methods!

1) $1539 - 640$

Answer: _____

2) $594 + 660$

Answer: _____

3) 35×12

Answer: _____

4) $1269 \div 27$

Answer: _____

5) $4289 - 1705$

Answer: _____

6) $280 + 240$

Answer: _____

7) 69×5

Answer: _____

8) $540 \div 10$

Answer: _____

9) $4389 - 1482$

Answer: _____

















10) $3375 + 429$

Answer: _____



Simultaneous Shapes.

Can you work out what number each shape must be representing by using the given row and column totals?

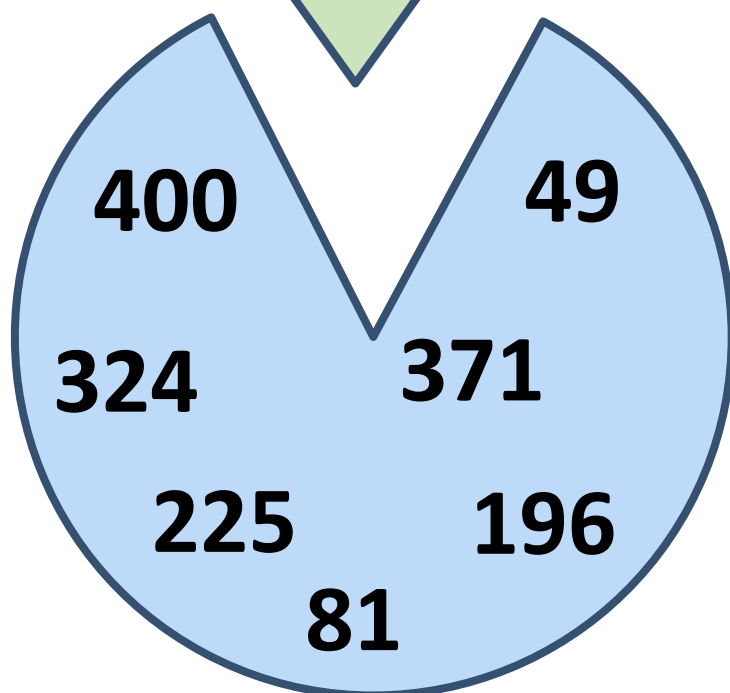
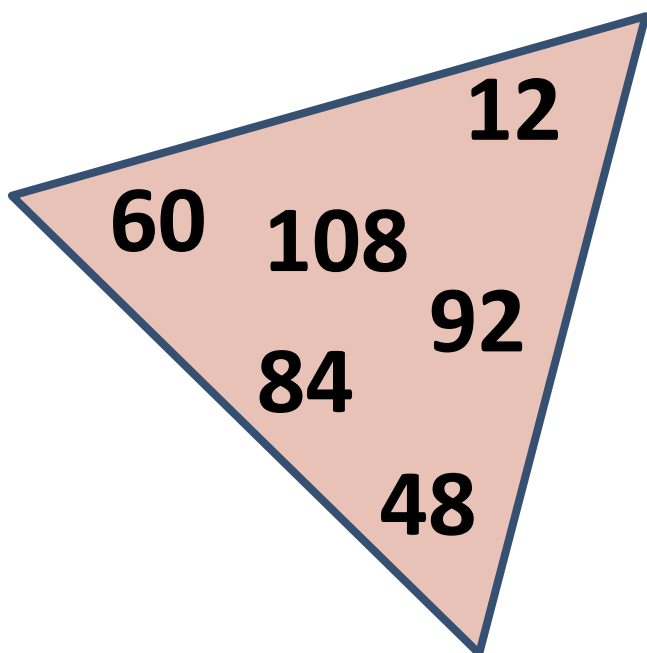
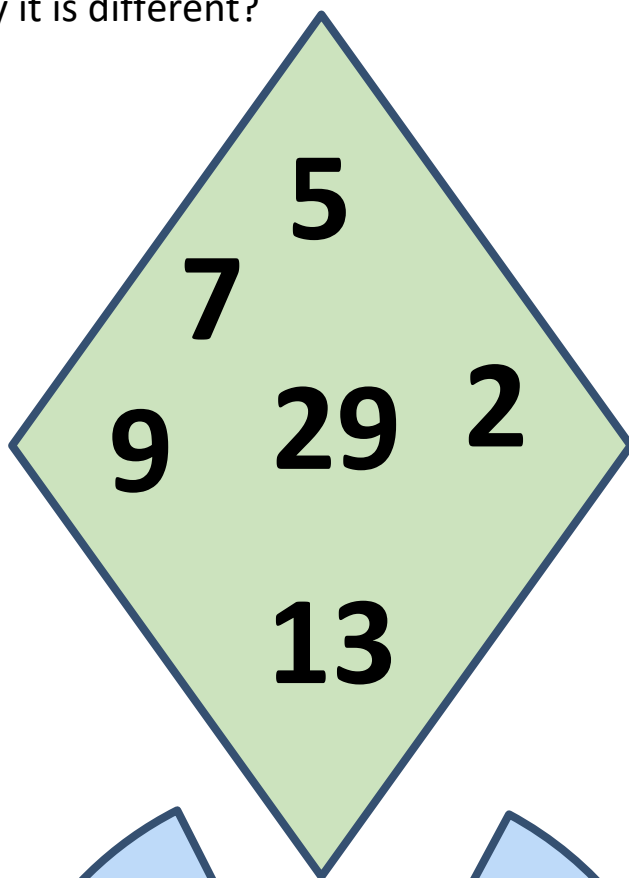
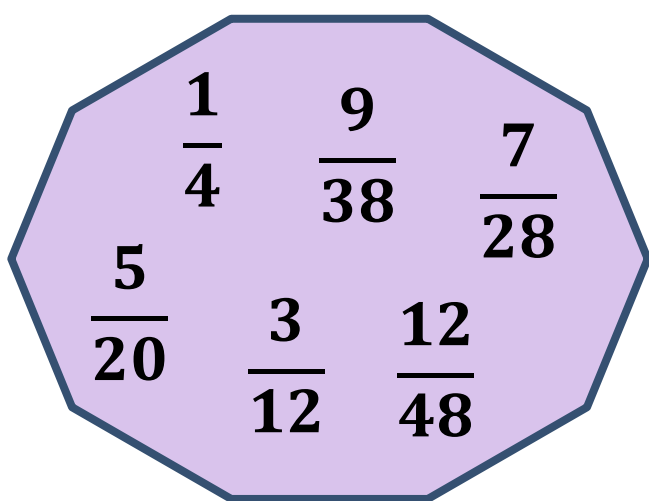
				4
				12
				16
				12
20	4	12	8	





Odd - one – out

In each shape can you find the one number which doesn't fit in with the others? Can you explain your reason why it is different?



Matching Pairs

Without using a calculator can you solve each of the questions and find all the matching pairs?

1. 707	2. $1462 \div 2$	3. 966	4. $979 - 637$	5. 943
6. 870	7. 731	8. 423	9. 75×36	10. $556 - 403$
11. 2700	12. 45	13. 78×85	14. $818 - 562$	15. $4350 \div 5$
16. 256	17. 180	18. 153	19. 342	20. 47×21
21. $5796 \div 6$	22. $4242 \div 6$	23. 987	24. $315 + 108$	25. 6630
26. $618 - 350$	27. $512 - 332$	28. $676 - 631$	29. 268	30. $2829 \div 3$

What is the difference between the largest and smallest answers?

What is the average answer?



4 Operations Puzzle

Fill each of the tiles with the digits 1 to 9.

Each digit can only be used once.

You may use a calculator for this challenge!

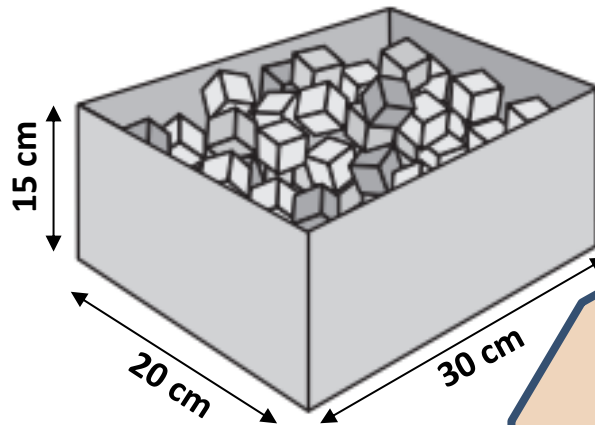
Digits Left: 1, 2, 3, 4, 5, 7, 8, 9.

	+		×		= 13
×		+		×	
	×		÷		= 72
+		-		+	
	×		×	6	= 126
= 43		= 6		= 8	



All boxed up!

Can you answer these questions about this box of cubes?



In this box there are **120** small cubes.

If each small cube weighs 30g what is the total weight of all of the cubes in kilograms?

15% of the cubes are red.
 $\frac{1}{5}$ of the cubes are blue.
The rest of the cubes are yellow.
How many cubes are yellow?

Each little cube has a volume of 64cm^3 .
What is the length of each cube?

How much empty space is there in the box?

What shape am I!

Solve the riddle to find the name of a shape.

My first is in shape and also in space;
My second is in line and also in place;
My third is in point and also in line;
My fourth in operation but not in sign;
My fifth is in angle but not in degree;
My sixth is in glide but not symmetry;
My seventh in round but not in square;
My last is in patterns you see everywhere;
My whole is a polygon, regular not wide;
But what is the sum of the angles inside?

How many different
shapes have you
spotted in this booklet?

Can you name them
all?





Dice!

Can you cut out and create an accurate dice using this net?

