

Westbourne House School Revision – Summer Term

Y6 MATHS REVISION CHECKLIST

The Exam(s) will consist of:

One Non-calculator Paper – duration 60 minutes One calculator paper – duration 60 minutes

One short Mental Arithmetic Test – duration 10 minutes (paper is done during a maths lesson)

Equipment you will need for the exam:

- Ruler (15cm and 30cm)
- Pencil
- Eraser and pencil sharpener
- Protractor (for the calculator paper only)
- Calculator (for the calculator paper)

TOPIC / PAPER	WHAT TO REVISE	DONE?
Non-Calculator	Number	
<u>Paper</u>	 4 operations 	
	 Place value, rounding and estimating 	
	 Fraction, decimal and percentage equivalence 	
	 Fraction and decimal calculations 	
	• BIDMAS	
	Ratio	
	Algebra	
	Solve equations	
	Continue pictorial sequences	
	Shape	
	 Area of rectangles, triangles and compound shapes 	
	Using angle rules	
Calculator paper	Number	
	 Using a calculator for the 4 operations and inverse operations 	
	 Language of numbers and types of numbers (Prime, factors, multiples etc) 	
	 Converting between metric units 	
	Place value	
	• BIDMAS	
	 Proportional reasoning (applied to speed) 	

	Find percentage amounts
	Algebra
	Simplify expressions
	Substitute into expressions
	Shape
	Area of compound shapes
	Perimeter of regular polygons
	Measuring
	Naming 2D shapes
	Draw reflections of shapes
	Data
	Read from graphs
Mental Arithmetic Test	 Taken in classroom under exam conditions. Pupils have 10 minutes to answer as many questions as possible No calculators to be used.
NOTES/TIPS:	 Revise by practising the questions below, and appropriate websites like www.mymaths.co.uk In all maths exams workings are essential. It must be assumed that any question worth more than 1 mark requires at least one line of working. Workings should not be "doodle" like but be clearly set out in a logical manor preferably starting at the top of the space provided and working in a downwards direction. For any further information or guidance about revision or the
	actual exam, please contact the Head of Maths – Mrs Lucy Low

(<u>llow@westbournehouse.org</u>)

Number work

1. Calculations (non-calc!!)

b.
$$35 \times 9 =$$

$$g. 9.21 - 5.32 =$$

2. BIDMAS

a.
$$3 - 5 + 8 =$$

b.
$$3 + 4 \times 5 =$$

c.
$$(2 + 3)^2 =$$

3. Fill in the missing spaces on the following number sequences

- 4. A sequence is formed following the rule "double and then add 5"
 - a. If the first number is 4, find the next two numbers.
 - b. If the second number is 25, what is the first number?
- 5. Fractions, decimals and %
 - a. Write 0.6 as a fraction in its lowest terms

b. Write
$$\frac{38}{100}$$
 as a decimal

c. Write
$$\frac{38}{100}$$
 as a fraction in its lowest terms

- e. Write 0.74 as a percentage
- f. Find 10% , 25% and 50% of £7.00 $\,$
- g. Find 10%, 25% and 50% of £30

h. Find
$$\frac{2}{5}$$
 of 35

i. Find
$$\frac{5}{6}$$
 of 72

j. Calculate
$$\frac{1}{13} + \frac{2}{13}$$

k. Calculate
$$\frac{2}{5} + \frac{3}{4}$$

- $\frac{7}{12}$ and Mrs Jones keeps $\frac{1}{4}$ for herself. Her lucky dog gets the rest. What fraction of the pizza does her dog get?
- 6. Multiplying and dividing by 10, 100, 1000 (powers of 100)

c.
$$65.74 \div 10 =$$

7. Reverse calculations - fill in the missing number (you can use a calculator for b. and c.)

- 8. Distance / time
 - a. If a car travels at 40 km per hour how far will it travel in 2 hours?
 - b. If a car travels at 30km per hour. How long will it take to travel 210 km?

9. The ratio of girls to boys in a class is 3:4. There are 12 boys. How many girls are there)

- 10. The ratio of cats to dogs on a street is 5:6 and there is a total of 44 animals on the street. How many dogs are there?
- 11. In a recipe for 3 people you need 6 eggs, 210 g flour and 90 g butter. How much of each of the ingredients would you need for
 - a. 12 people
 - b. 10 people

<u>Algebra</u>

12. Given that a = 3, b = 4, c = -5 find:

3a

4c

a+b+c

abc

a + b

a – c

13. Simplify the following expressions:

$$3a + 4a - 2a + 3b$$

$$3a - 4b + 2a + 5b$$

axaxaxa

3a x 4b

14. Solve these equations

$$4a = 20$$

$$a + 5 = 7$$

$$2a + 7 = 17$$

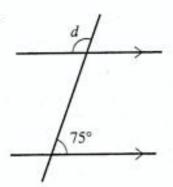
$$3a + 16 = 5a + 4$$

$$3a - 5 = a + 7$$

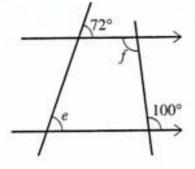
Angles

15. Find the missing angles

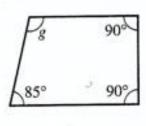
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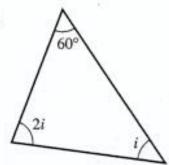
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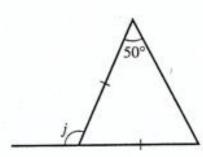
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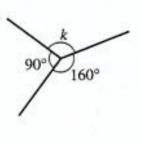
8.



9.

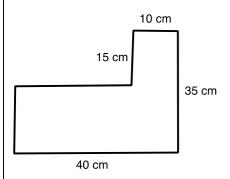


10.



<u>Area</u>

- 16. The area of a square is 100 cm². What is the perimeter?
- 17. A triangle has a base of 10cm and a height of 8cm. What is the area?
- 18. A regular octagon has a side length of 5cm. What is the perimeter?
- 19. Find the perimeter of the following shape that has been made from two rectangles.



24. Find the area of the following triangle.

