## Westbourne House School <br> 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 ( 15 cm and 30 cm )
- 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 |  |
| Paper | - 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 |  |
|  |  |  |
|  | - Using angle rules |  |
| Calculator paper | Number |  |
|  | - Using a calculator for the 4 operations and inverse operations <br> - Language of numbers and types of numbers (Prime, factors, |  |
|  | multiples etc) |  |
|  | - Converting between metric units |  |
|  | - Place value |  |
|  | - BIDMAS |  |
|  | - Proportional reasoning (applied to speed) |  |



## Number work

1. Calculations (non-calc!!)
a. $354+45=$
b. $35 \times 9=$
c. $23 \times 6=$
d. double $72=$
e. half $94=$
f. $7.34+8.89=$
g. $9.21-5.32=$
h. $528 \div 3=$
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
a. $3,8,13,18$, $\qquad$
b. $3.5,5.5,7.5,9.5$,
c. 6, $\qquad$ 26, $\qquad$ 56, 66
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
d. Write $38 \%$ as a decimal
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 $\quad \frac{1}{13}+\frac{2}{13}$
k. Calculate
$\frac{2}{5}+\frac{3}{4}$
I. Mrs Jones has a pizza. Jack Jones eats $\frac{7}{12}$ 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)
a. $6.23 \times 10=$
b. $6.23 \times 100=$
c. $65.74 \div 10=$
d. $45.3 \times 100=$
e. $3.45 \div 1000=$
7. Reverse calculations - fill in the missing number (you can use a calculator for b. and c.)
a. 3.4 x $\qquad$ $=34$
b. $252 \div$ $\qquad$ $=84$
C. $\qquad$ $-2.4=10.6$
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 30 km 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

## Algebra

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:

$$
a+a+a+a
$$

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

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

$a x a x a x a$
$3 \mathrm{a} \times 4 \mathrm{~b}$
14. Solve these equations
$4 a=20$
$a+5=7$
$2 a+7=17$
$3 a+16=5 a+4$
$3 a-5=a+7$

## Angles

15. Find the missing angles
16. 


5.

6.

8.

9.

10.


Area
16. The area of a square is $100 \mathrm{~cm}^{2}$. What is the perimeter?
17. A triangle has a base of 10 cm and a height of 8 cm . What is the area?
18. A regular octagon has a side length of 5 cm . 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.


## Data: Reading from Graphs

Drink sales during one week


1) How many people bought Cocola during the week? $\qquad$
2) How many more people bought Fizz Juice than Magic Drink?
$\qquad$
3) Sam says, "More people bought Cocola than Fizzy Water and Sparkle Juice combined." Is he correct? How do you know?
$\qquad$
4) How many drinks were sold altogether? $\qquad$
