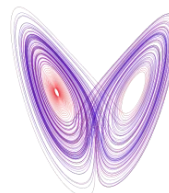




Varndean
College Brighton & Hove **Maths**



GCSE Flying Start Pack

In order to prepare you for your new course starting on 11th September we have put together a pack of materials for you to work on over the next week.

We have included a short Functional Maths test which will highlight those topics you already know well and those that you need to work on over the next year. You should print this out, complete it and **bring it along to your first lesson.**

In addition you need to ensure you have the correct equipment at the start of the course. You will need the following **every lesson.**

File/Ring binder

Paper

Pen

Pencil

Ruler

Calculator

Protractor

Compass

The mathematical equipment (calculator, protractor, compass, ruler and pencil) will be available from the student shop in a handy A5 sized wallet for £6.

Good Luck we look forward to seeing you next week.

Flying Start (Try these without a calculator)

1.

- a) $543 + 698 =$
- b) $475 - 219 =$
- c) $24 \times 6 =$
- d) $29 \times 42 =$
- e) $245 \div 7 =$

2.

- a) $3 - 7 =$
- b) $-9 + 4 =$
- c) $4 \times -3 =$
- d) $-6 - -2 =$
- e) $-24 \div -6 =$
- f) $3(2+4) =$
- g) $14 - (3 \times 4) =$

3.

- a) Round 38 to the nearest 10 ?

- b) Write 3.476 to 2 decimal places ?

4.

- a) Which is the largest fraction?

$$\frac{3}{20} \quad \frac{3}{5} \quad \frac{3}{10}$$

- b) Find the equivalent $\frac{3}{4} = \frac{\quad}{16}$

- c) What is the lowest common denominator of these fractions ?

$$\frac{1}{2} \quad \frac{1}{8} \quad \frac{1}{3}$$

5. Work out

a) $\frac{3}{5} - \frac{2}{5} =$

b) $\frac{5}{12} + \frac{2}{3} =$

6.

a) Circle the number that is **not** a multiple of 7

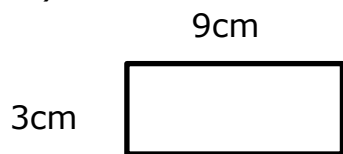
21 67 49 70

b) Circle the number that is **not** a factor of 18

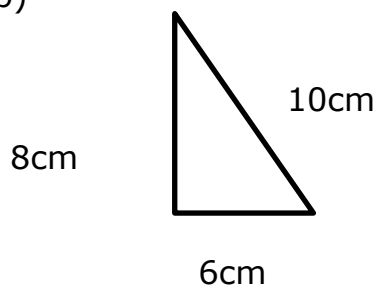
2 3 4 6 18

7. Find the **perimeter** and **area** of the following shapes

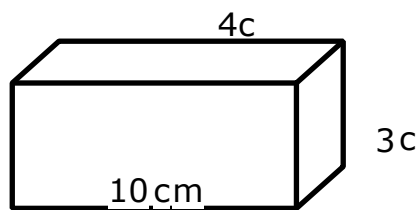
a)



b)



8. Find the volume of the following shape ?



9. **Estimate** how much money Jim would need to buy 15 items at £3.99 each. You do not need to give the exact answer.

10. In a factory of 400 people the ratio of male to female workers is 6:4. How many workers are female ?

11. If $a=2$ and $b=5$, find the value of $3a + 2b$?