Abstract
Education

Tutor Marked Assignment: Number

Student Number:
Full Name:
Email:

Please ensure that you show your workings on ALL answers that enable you to.

If you feel that you have not covered a certain part, please do not worry. The assignments do not affect your final grade and are there to give your tutor an indication of your current ability and where they can provide further help if required.

Feel free to use additional resources to help you with your answers such as eBooks, the internet, and online resources.

FOUNDATION (CORE) LEVEL

Question 1 | 1 mark

What is the value of $(-7)^2$?

Question 2 | 1 mark

Which of the fractions below is the smallest?

$\frac{5}{4}$

$\frac{11}{12}$

$\frac{7}{8}$

$\frac{5}{6}$

Question 3 | 1 mark

Round 19.0563 to three significant figures.

Question 4 | 2 marks

Work out $\frac{7}{10} + \frac{8}{15}$. Give your answer as a mixed number in its simplest form.

Question 5 | 3 marks

Amir is going to the cinema. Adult tickets cost £7.50 each and children's tickets cost £4.50 each. Popcorn costs £1.40 per tub. He buys 3 adult tickets and 4 children's tickets, and has a total of £50 to spend in total. What is the largest possible number of tubs of popcorn he can buy?

HIGHER (EXTENDED) LEVEL

Question 6 | 1 mark

Write the number 0.000000195 in standard form.

Question 7 | 2 marks

Work out $\frac{3}{8} \div 2\frac{1}{5}$

Question 8 | 2 marks

The mass of one sheet of paper is 5.1g, correct to one decimal place. A pile of paper contains 100 sheets. Find the minimum mass of the pile of paper.

Question 9 | 2 marks

Express 280 as a product of its prime factors.

Question 10 | 1 mark

How many common factors do 42 and 56 have?

Question 11 | 1 mark

Chi thinks of a two-digit number. The first digit is 6 more than the second digit, and the number is prime. What number did Chi think of?

Question 12 | 2 marks

Write $\frac{79}{30}$ as a recurring decimal.