KS3 Maths Assignment Twenty-Five

Assignment guidance

Format: You should complete this assignment on this question paper and submit it as a single file.

Timing: This is not a timed assignment. We estimate that this assignment may take you between 15 and 25 minutes. However, if you need to take longer, then please do so.

Resources: You will need to use a calculator with a π button for this assignment.

Preparation: Before you begin this assignment, please ensure that you have worked through the feedback on the previous assignment, completed all the course book exercises in this module (with our recommended online video tutorials watched where needed), and answered the quiz for this module.

1. Calculate the answers to the following:

   a. 4.8 x 100 (1 mark)

   b. 2.07 ÷ 0.01 (1 mark)

   c. 0.006 x 1/10 (1 mark)

(Question 1 total: 3 marks)

2. Round 9909.909

   a. to the nearest 10 (1 mark)

   b. to the nearest 100 (1 mark)

c. to 3 sf (1 mark)

d. to 2 dp (1 mark)

(Question 2 total: 4 marks)

3.

a. Express the numbers 180 and 84 as the product of prime factors. (4 marks)

b. Now work out the LCM (lowest common multiple) of 180 and 84. (2 marks)

c. c. Now work out the HCF (highest common factor) of 180 and 84. (2 marks)

(Question 3 total: 8 marks)

4. Work out the following, giving your answer as a fraction in its simplest form and as a mixed number where appropriate:

a. $1\frac{3}{7} + \frac{5}{6}$ (2 marks)

b. $\frac{2}{9} \times \frac{3}{8}$ (2 marks)

c. $11 \div \frac{4}{7}$ (2 marks)

(Question 4 total: 6 marks)

5. Write the following decimals as fractions in their simplest form:

a. 0.74 (2 marks)

b. 2.106 (2 marks)

(Question 5 total: 4 marks)

6. Change these fractions into decimals, giving your answers to 2dp where appropriate:

a. $\frac{3}{8}$ (2 marks)

b. $\frac{1}{9}$ (2 marks)

(Question 6 total: 4 marks)

TOTAL FOR ASSIGNMENT 29 MARKS