

Surname	
Other Names	
Candidate's Signature	

## GCSE 9 - 1 Questions

### Order of Operation 2

**Calculator Allowed**

#### INSTRUCTIONS TO CANDIDATES

Write your name in the space provided.

Write your answers in the spaces provided in this question paper.

Answer ALL questions.

Any working should be clearly shown in the spaces provided since marks may be awarded for partially correct solutions.

**Total Marks :**

- 1) Find the value of  $5 \cdot 12^3 - \sqrt{425 \cdot 1}$ . Write down your answer to 1 decimal place. [2]

.....

.....

- 2) Asif used his calculator to find the value of

$$\frac{85 \times 43}{17 + 35}$$

He pressed the following buttons on his calculator in this order.

8	5	×	4	3	÷	1	7	+	3	5	=
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The answer he got was 250. This answer is incorrect.

- (a) Explain what Asif did wrong. [1]

.....

.....

.....

.....

- (b) Find the correct value of

$$\frac{85 \times 43}{17 + 35}$$

Write your answer correct to 3 significant figures. [2]

.....

.....

.....

- 3) (a) Find the value of  $\frac{76 \cdot 5^3}{49 \cdot 84 - 5 \cdot 6}$  giving your answer correct to two decimal places.

.....  
 ..... [2]

- (b) Write down the above answer correct to one significant figure.

.....  
 ..... [1]

- 4) Find the value of the following, giving each answer correct to four significant figures.

(a)  $\frac{300 \cdot 27}{24 \cdot 36 \times 6 \cdot 74}$

.....  
 ..... [2]

(b)  $5 \cdot 8^2 - 4 \cdot 79 + \sqrt{34 \cdot 5 \div 9 \cdot 64}$

.....  
 ..... [2]

- 5) Evaluate  $\frac{\sqrt[3]{90}}{10 \cdot 5 - 7 \cdot 74}$ . Give your answer correct to 2 decimal places. [2]

.....  
 .....

- 6) Calculate  $\sqrt{(24 \cdot 6 - 13 \cdot 8)^3}$ , correct to 3 significant figures. [2]

.....  
 .....

7) Find the value of

(a)  $\frac{43.73 \times 26.23}{523.9 - 26.74}$ , giving your answer correct to three significant figures,

..... [2]

(b)  $\sqrt{(43^3 \div 52)}$ , giving your answer correct to two decimal places.

..... [2]

8) Find the value of each of the following calculations.

(a)  $\frac{232.6 - 75.8}{0.5}$

.....  
 ..... [1]

(b)  $8.6^2 - \sqrt{40.2 + 51.96}$

.....  
 .....  
 ..... [2]

9) Find the value of each of the following, giving your answers correct to two decimal places.

(a)  $\frac{654.6}{93 + 26.74}$

..... [2]

(b)  $\sqrt{480 \times 0.69}$

..... [2]

10) Find the value of

(a)  $\frac{128.5 \times 4.9}{18.2 + 7.5}$ ,

.....  
..... [1]

(b)  $\sqrt{(385.76 - 47.2)} + 5.7^3$ .

.....  
.....  
.....  
..... [2]

11)(a) Find the value of  $53.2^3 + \sqrt{9671.3}$ . Write your answer correct to 2 significant figures. [2]

.....  
.....

(b) Find the value of  $\frac{2}{0.6^2}$ . Write your answer correct to 1 decimal place. [2]

.....  
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