



2025 TESTIFI EXAMINATION

Operations with Grouping

Solutions and Marking Guidelines

Section I

2 marks

Questions 1–2

Question 1 (1 mark)

1

A

Following order of operations: First, solve the brackets: $(-4) + 6 = 2$. Then: $3 + 2 \times 2 - (-8) \div 4 = 3 + 4 - (-2) = 3 + 4 + 2 = 9$.

Question 2 (1 mark)

1

C

Following order of operations: First, solve inner brackets: $(-6+8) = 2$. Then outer brackets: $[2-2] = 0$. Next: $(-15) \div 3 = -5$ and $4 \times 0 = 0$. Finally: $-5 + 0 - 12 = -17$.

Section II

10 marks

Questions 3–11

Question 3 (1 marks) **1**

First evaluate the brackets: $5 - 2 = 3$. Then $3 + 3 = 6$.

Question 4 (1 marks) **1**

First evaluate the brackets: $4 + 3 = 7$. Then $7 - 7 = 0$.

Question 5 (1 marks) **1**

First evaluate the brackets: $8 - 5 = 3$. Then $2 \times 3 = 6$.

Question 6 (1 marks) **1**

First evaluate the brackets: $9 + 2 = 11$. Then $-4 + 11 = 7$.

Question 7 (1 marks) **1**

First evaluate the brackets: $3 + 2 = 5$. Then $15 \div 5 = 3$.

Question 8 (1 marks) **1**

First evaluate the brackets: $7 - 3 = 4$. Then $6 \times 4 = 24$.

Question 9 (1 marks) **1**

First evaluate the brackets: $5 + 4 = 9$. Then $12 - 9 = 3$.

Question 10 (1 marks) **1**

First evaluate the brackets: $6 - 8 = -2$. Then $-3 \times (-2) = 6$.

Question 11 (2 marks) **2**

First evaluate the brackets: $4 + 2 = 6$. Then $18 \div 6 = 3$. Finally $3 - 1 = 2$.