


1 (a) Work out $16 \div 4 + 3 \times 8$  BIDMAS

$$(16 \div 4) + (3 \times 8)$$

$$= 4 + 24 = 28$$

28

(1)

(1)

(Total for Question 1 is 1 marks)

2 (e) Write brackets in the following calculation so that the answer is correct.

$$42 - 6 \div (6 - 3) = 40$$



(1)

(Total for Question 2 is 1 marks)

3 (b) Write one pair of brackets in this calculation so that the answer is correct.

$$9 \times (8 - 5) - 2 = 25$$

(1)

(Total for Question 3 is 1 marks)

4 (b) Write a number on each dotted line to make the calculation correct.

(i) $10 - \overset{\text{3}}{\text{.....}} \overset{\text{1}}{\text{.....}} \times 2 = 4$

(1)

(ii) $(5 + \overset{\text{7}}{\text{.....}} \overset{\text{0}}{\text{.....}}) \times 3 = 36$

(1)

(Total for Question 4 is 2 marks)

5 (b) Use brackets to make the statement correct.

You may use more than one pair of brackets in the statement.

$$(2^2 + 5) \times (2 + 3^2) = 99$$

(1)



(Total for Question 5 is 1 marks)

6 Finn is asked to find the value of $5 + 3^2 + 12$

Here is his working and his answer.

$$\begin{aligned} 5 + 3^2 + 12 &= 8^2 + 12 \\ &= 64 + 12 \\ &= 76 \end{aligned}$$

Finn's answer is wrong.

(a) Explain what Finn has done wrong in his working.

Finn should have squared the 3 first before added to 5.

(1)

(1)

(b) Write one pair of brackets in this calculation so that the answer is correct.

$$2 \times 6 - (4^2 - 14) = 10$$

(1)

(1)

(c) Work out the value of $x^2 + 5y$ when $x = -3$ and $y = 2$

$$(-3)^2 + 5(2)$$

(1)

$$9 + 10 = 19$$

(1)

19

(2)

(Total for Question 6 is 4 marks)