#### SECTION I

#### Answer ALL questions.

All working must be clearly shown.

(a) Calculate the EXACT value of

$$\left(1 - \frac{3}{4} - \frac{1}{8}\right) + \left(\frac{5}{6} + \frac{2}{3}\right)$$
. (3 marks)

(b) Using a calculator or otherwise, calculate

$$\sqrt{2.891} + \frac{1.2}{(1.31)^2}$$

giving your answer correct to 2 decimal places.

(3 marks)

- (c) A jeweller paid \$6 800 for 165 bracelets bought in China. The Customs Department in his country charged him \$1 360 in duty.
  - Calculate the TOTAL cost of the 165 bracelets inclusive of duty. (1 mark)
  - (ii) The jeweller sold the 165 bracelets at a selling price of \$68.85 EACH.
    - a) Calculate the TOTAL profit he made on the sale of the 165 bracelets.

(2 marks)

 Calculate the profit as a percentage of the cost price, giving your answer to the nearest whole number. (2 marks)

Total 11 marks

2. (a) (i) Solve for x, where x is a real number

$$2(x-6) + 3x \le 8$$
. (3 marks)

(b) Factorize completely:

(i) 
$$3x - 6y + ax - 2ay$$
 (2 marks)

(ii) 
$$p^2 - 1$$
 (1 mark)

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