

## SECTION I

Answer ALL questions.

All working must be clearly shown.

1. (a) Calculate the EXACT value of

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

- (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.

- (i) 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)

- b) 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

$$2(x - 6) + 3x \leq 8. \quad (3 \text{ marks})$$

- (ii) Using a number line, show your solution to Part (a) (i). (1 mark)

- (b) Factorize completely:

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

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

# Pixl Maths Papers Jan 2014

**Shasha Hu**



**Pixl Maths Papers Jan 2014:**

## **Pixl Maths Papers Jan 2014** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Pixl Maths Papers Jan 2014**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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