

SECTION I
ANSWER ALL QUESTIONS IN THIS SECTION

Write your answers in the spaces provided. Remember to show all working.

1. (a) Calculate, showing all working, the value of

$$\frac{3\frac{2}{5} - \frac{2}{3}}{1\frac{1}{10}}$$

$$\text{Numerator: } 3\frac{2}{5} - \frac{2}{3} = \frac{18}{5} - \frac{2}{3} = \frac{54}{15} - \frac{10}{15} = \frac{44}{15}$$

$$\text{Denominator: } \frac{11}{10}$$

$$\frac{\text{Numerator}}{\text{Denominator}} = \frac{\frac{44}{15}}{\frac{11}{10}} = \frac{44}{15} \div \frac{11}{10} = \frac{44}{15} \times \frac{10}{11}$$

$$= \frac{4}{3} \times \frac{2}{1} = \frac{8}{3} = 2\frac{2}{3}$$

(3 marks)

- (b) (i) The first four figures in a sequence are shown below.



Figure 1



Figure 2



Figure 3

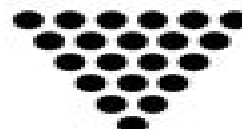


Figure 4

...

Figure 6

Draw Figure 6 of the sequence.



(2 marks)

- (ii) How many dots would be in Figure 8?

(1 mark)

Figure No.	1	2	3	4	5	6	7	8
No. of dots	1	3	6	10	15	21	28	36
		+2	+3	+4	+5	+6	+7	+8

The number of dots in Figure 8 is 36

(Total 6 marks)

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D Kirk



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