

2. (a) Solve the pair of simultaneous equations

$$\begin{aligned} 3x + 2y &= 13 \\ x - 2y &= -1 \end{aligned}$$

(3 marks)

- (b) Factorise completely

(i) $x^2 - 16$

(1 mark)

(ii) $2x^2 - 3x + 8x - 12$

(2 marks)

- (c) Tickets for a football match are sold at \$30 for EACH adult and \$15 for EACH child. A company bought 28 tickets.

- (i) If x of these tickets were for adults, write in terms of x ,

a) the number of tickets for children

(1 mark)

b) the amount spent on tickets for adults

(1 mark)

c) the amount spent on tickets for children.

(1 mark)

- (ii) Show that the TOTAL amount spent on the 28 tickets is $\$(15x + 420)$.

(1 mark)

- (iii) Given that the cost of the 28 tickets was \$660, calculate the number of adult tickets bought by the company.

(2 marks)

Total 12 marks

3. (a) A universal set, U , is defined as:

$$U = \{ 51, 52, 53, 54, 55, 56, 57, 58, 59 \}$$

A and B are subsets of U , such that:

$A = \{ \text{odd numbers} \}$

$B = \{ \text{prime numbers} \}$

- (i) List the members of the set A .

(1 mark)

- (ii) List the members of the set B .

(1 mark)

- (iii) Draw a Venn diagram to represent the sets A , B and U .

(3 marks)

- (b) (i) Using a pair of compasses, a ruler and a pencil

a) construct a triangle CDE in which $DE = 10$ cm, $DC = 8$ cm and $\angle CDE = 45^\circ$.

(4 marks)

b) construct a line, CF , perpendicular to DE such that F lies on DE .

(2 marks)

- (ii) Using a protractor, measure and state the size of $\angle DCE$.

(1 mark)

Total 12 marks

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