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4-Write a condition for divisibility by 4 : (4marks)

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5-Which of the following are divisible by the first numbers (4marks)

(a) 3 : 924    471 692

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(b) 5 : 854    1455    6720

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6- Define probability: (4marks)

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7-In an experiment of tossing two dice and recording the number of points on the two appearing faces, write the following events: (4marks)

A:getting a sum less than 5

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B:getting a sum less than 2

C:getting the same number on the two faces

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8-Given the matrix A(4marks)

$$\begin{bmatrix} 3 & 5 & 9 \\ 2 & 6 & 8 \\ 4 & 7 & 1 \end{bmatrix}$$

2















(i) The mean (3marks)

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(ii) The median (3marks)

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(b) Estimate the area between the curve and the two axis in the figure below:

(Given the width =2 units)

(6marks)

17-(a)(i) M(4,3) is the midpoint of the line segment XY. Given the coordinate of X are

(6,5). Find the coordinate of Y:

(3marks)

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(ii) Represent the set  $X=\{3,5,7,4\}$  ,  $Y=\{2,6\}$  in a Venn diagram: (3marks)

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(b)(i) Solve the inequality :  $3(1/2x - 4) \leq 4(x - 2)$  (3marks)

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(ii) Graph the solution on a number line: (3marks)

