

(4)	2. (3)	3. (4)	4. (1)	5. (4)	6. (1)	7. (3)	8. (2)	
2)nathong	10. (1) athongo							
(4) P (exact	$lv one) = \frac{2}{}$							
=P(A)+P	$(B)-2P(A \cap B) = \frac{2}{5}$	$\frac{2}{3}$ (1) mathongo						
$P(A \cup B) =$		·						
= P(A)+P	$(B)-P(A\cap B)=\frac{1}{2}$	(2)						
$\therefore P(A \cap B)$	$=\frac{1}{2}-\frac{2}{5}=\frac{5-4}{10}=\frac{1}{10}$	$\frac{1}{10}$. mathongo						
(3)	2 0 10	10						
	er of ways to form the	e numbers of five dig	its with 1, 2, 3, 4,	5 are = 5! = n(S)				
	ımber divisible by 4 v							
Hence, the p	ossible last two digit	ts of the number are	12, 24, 32, 52.					
And, for each	h case the remaining	three places can be	filled in 3! ways.					
Thus, the to	tal number of number	rs which are divisible	by 4 are $n(E) = 3!$	imes 4 = 4!				
Required	probability = $\frac{n(E)}{n(S)}$ =	$=\frac{4!}{5!}=\frac{1}{5}$						
	ting an apple from bo							
	From first basket) $\cdot P(x)$		isket)					
			· ·					
	C_1 a orange from both by							
	from first basket) $\cdot P$	*	backet)					
= T (orange)	Tom mist basket) 4	// mothongo	/// mothongo					
01	√1							
	obability = $\frac{{}^{5}C_{1} {}^{4}C_{1}}{{}^{12}C_{1} {}^{12}C_{1}}$							
$=\frac{20+56}{144}=$	144 // mathongo							
(1)								
	of ways in which 8 p							
Thus, the re		$= \frac{{}^{18}C_6(2!)(13-1)!(6!)}{(20-1)!}$	$- = \frac{(18!)(2!)(12!)(6!)}{(19!)(12!)(6!)}$	$\frac{1}{2} = \frac{2}{19}$.				
Thus, the relation Here, $^{18}C_6$ is	quired probability is efers to selection of 0	$= \frac{{}^{18}C_6(2!)(13-1)!(6!)}{(20-1)!}$ 6 people out of 18, 2	$= \frac{(18!)(2!)(12!)(6!)}{(19!)(12!)(6!)}$! is arranging A and	$\frac{1}{2} = \frac{2}{19}$. B, 6! is arranging th	e 6 people in betwee	en A and B.		
Thus, the relation Here, $^{18}C_6$ is	quired probability is refers to selection of ($= \frac{{}^{18}C_6(2!)(13-1)!(6!)}{(20-1)!}$ 6 people out of 18, 2	$= \frac{(18!)(2!)(12!)(6!)}{(19!)(12!)(6!)}$! is arranging A and	$\frac{1}{2} = \frac{2}{19}$. B, 6! is arranging th	e 6 people in betwee	en A and B.		
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Answer Keys and Solutions

