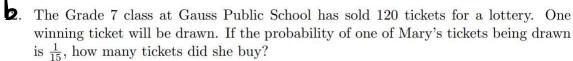
## Level 1

	rolling a five?					
	(A) $\frac{2}{6}$	(B) $\frac{1}{6}$	(C) $\frac{5}{6}$	(D) $\frac{3}{6}$	<b>(E)</b> $\frac{4}{6}$	
Ь	size. What is to	tter $P$ using the $(\mathbf{B}) \frac{4}{6}$			Q $P$ $P$ $Q$ $P$ $Q$	
C	You are writing	ng a multiple	ere are five pos		ion you guess and pick A,B,C,D,E), what is the	
			(C) $\frac{4}{5}$	(D) $\frac{2}{5}$	<b>(E)</b> $\frac{3}{5}$	
d.	include books a	nd calculators.	There are 27 prize	es in the bag. Me	the from a bag. The prizes ghan is the first to choose a e is $\frac{2}{3}$ , how many books are	
	<b>(A)</b> 15	<b>(B)</b> 9	(C) 21	<b>(D)</b> 7	<b>(E)</b> 18	
e		y chooses one	of the seeds from		s, and 4 pumpkin seeds. What is the probability	
	(A) $\frac{2}{9}$	(B) $\frac{5}{9}$	(C) $\frac{9}{7}$	(D) $\frac{7}{9}$	(E) $\frac{1}{9}$	
ŧ	randomly chos	en from the bo		probability that	er fruit. When a fruit is the fruit is an orange?  (E) $\frac{2}{3}$	
3	A box contains 1 grey ball, 2 white balls and 3 black balls. Without looking, John reaches in and chooses one ball at random. What is the probability that the ball <i>is not</i> grey?					
	( <b>A</b> ) 1	<b>(B)</b> $\frac{2}{6}$	(C) $\frac{3}{6}$	<b>(D)</b> $\frac{4}{6}$	<b>(E)</b> $\frac{5}{6}$	
h	There are 2 red, 5 yellow and 4 blue balls in a bag. If a ball is chosen at random from the bag, without looking, the probability of choosing a yellow ball is					
	(A) $\frac{2}{11}$	(B) $\frac{5}{11}$	(C) $\frac{4}{11}$	(D) $\frac{6}{11}$	(E) $\frac{7}{11}$	

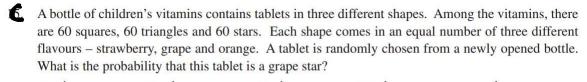
**Q**. A six-sided die has the numbers one to six on its sides. What is the probability of

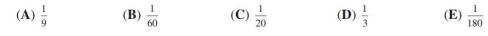
## Level 2

Ø.	A fair die is constructed by labelling the faces of a wooden cube with the numbers 1, 1, 1, 2, 3, and 3 If this die is rolled once, the probability of rolling an odd number is					nd 3.
	(A) $\frac{5}{6}$	<b>(B)</b> $\frac{4}{6}$	(C) $\frac{3}{6}$	<b>(D)</b> $\frac{2}{6}$	<b>(E)</b> $\frac{1}{6}$	

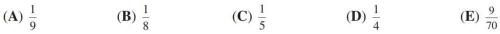


10				
(A) 5	<b>(B)</b> 6	(C) 7	<b>(D)</b> 8	<b>(E)</b> 9





A box contains 36 pink, 18 blue, 9 green, 6 red, and 3 purple cubes that are identical in size. If a cube is selected at random, what is the probability that it is green?



A circular spinner is divided into 20 equal sections, as shown. An arrow is attached to the centre of the spinner. The arrow is spun once. What is the probability that the arrow stops in a section containing a number that is a divisor of 20?

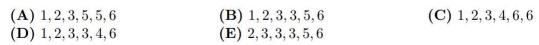


(A)  $\frac{12}{20}$  (B)  $\frac{14}{20}$  (C)  $\frac{15}{20}$  (D)  $\frac{7}{20}$  (E)  $\frac{6}{20}$ 

7. In Braydon's cafeteria, the meats available are beef and chicken. The fruits available are apple, pear and banana. Braydon is randomly given a lunch with one meat and one fruit. What is the probability that the lunch will include a banana?

(A)  $\frac{1}{3}$  (B)  $\frac{2}{3}$  (C)  $\frac{1}{2}$  (D)  $\frac{1}{5}$  (E)  $\frac{3}{5}$ 

**3**. A special six-sided die is rolled. The probability of rolling a number that is a multiple of three is  $\frac{1}{2}$ . The probability of rolling an even number is  $\frac{1}{3}$ . A possibility for the numbers on the die is



h.	(worth \$0.01 ea \$10.00. The val- the jar, what is	ch). The value of the pennies the probability	of the quarters is is \$10.00. If Judthat it is a quart	s \$10.00. The va dith randomly ch	5 each) and pennies alue of the nickels is access one coin from $(E) \frac{1}{30}$	
Lev	el 3					
Q.	Point $P$ is give chosen to be (segment $PQ$ is	en. One of the of $Q$ . What is the evertical or hori (B) $\frac{1}{5}$		randomly •	• • • • • • • • • • • • • • • • • • •	
b.	are all showing once only, what	heads, or if the is the probabili	e 3 coins are all ty of winning?		in only if the 3 coins you play the game $(\mathbf{E}) \frac{1}{3}$	
G.	She randomly draws 2 marbles from the jar. If the marbles are the same colour, she discards one and puts the other back into the jar. If the marbles are different colours, she discards the red marble and puts the blue marble back into the jar. She repeats this process a total of three times. What is the probability that the remaining marble is red?					
1			(C) $\frac{2}{3}$	·		
<b>3</b> .	<ul> <li>Two standard six-sided dice are tossed. One die is red and the other die is blue. What is the probability that the number appearing on the red die is greater than the number appearing on the blue die?</li> <li>(A) <sup>18</sup>/<sub>36</sub></li> <li>(B) <sup>25</sup>/<sub>36</sub></li> <li>(C) <sup>15</sup>/<sub>36</sub></li> <li>(D) <sup>12</sup>/<sub>36</sub></li> <li>(E) <sup>17</sup>/<sub>36</sub></li> </ul>					
€.	Mark adds a number of white marbles to the bag and tells Susan that if she now draws a marble at random from the bag, the probability of it being black or gold is $\frac{3}{7}$ . The number of white marbles					
	that Mark adds to (A) 5	(B) 2	(C) 6	<b>(D)</b> 4	(E) 3	