Question No. 1 of 10

Instructions: (1) Read the problem and answer choices carefully (2) Work the problems on paper as peeded (3) Pick the answer (4) Go back to review the core concept tutorial as peeded		
	1. What type of data display is shown?	
	Test Scores	
₽?	< 	
Question	(A) box-and-whiskers plot	
	(B) frequency table	
	(D) line plot	
	(E) stem-and-leaf plot	
	A. Correct!	
	B. Incorrect! Boview the definition and examples of frequency tables	
	Review the definition and examples of frequency tables.	
N	C. Incorrect! Review the definition and examples of histograms.	
Feedback		
	D. Incorrect! Review the definition and examples of line plots.	
	E. Incorrect! Review the definition and examples of stem-and-leaf plots.	
	A box-and-whiskers plot is a graphical representation of numerical data using the	
	extreme values and quartile values.	
?	The correct answer is (A).	
ľ		
Solution		

Question No. 2 d	Question No. 2 of 10		
Instructions: (1) Read the problem and answer choices carefully (2) Work the problems on paper as			
needed (3) Pick	the answer (4) Go back to review the core concept tutorial as needed.		
	2. The line plot shows the results of a survey that asked "What is your favorite sport to watch?" Which sport ranks as second favorite?		
	Favorite Sport to Watch		
	X		
E	x x x x x		
	$\leftarrow + + + + + + \rightarrow$		
Question	Baseball Basketball Football Golf Soccer		
	(A) baseball		
	(B) basketball		
	(C) rootball (D) colf		
	(E) soccer		
	A. Incorrect! Baseball is one of the least favorite sports to watch by the survey participants.		
	B. Correct!		
	basketball is the second favorite sport to watch by the survey participants.		
ſ			
28	C. Incorrect!		
	Football is the favorite sports to watch by the survey participants.		
-			
Feedback	D. Incorrect!		
	Golf is one of the least favorite sports to watch by the survey participants.		
	E. Incorrect!		
	Soccer is the third favorite sport to watch by the survey participants.		
	Count the frequency of each sport to find the second largest frequency.		
	Deschall D		
	Baseball – 2 Basketball – 4		
	Football – 5		
7	Golf – 2		
	Soccer – 3		
Solution	Basketball has the second largest frequency.		
Solution			
	The correct answer is (B).		

Question No. 3 of 10

Instructions: (1) Read the problem and answer choices carefully (2) Work the problems on paper as			
needed (3) Pick the answer (4) Go back to review the core concept tutorial as needed.			
	 The stem-and-leaf plot shows the points scored by a football team in 14 games. What was the largest number of points scored by the team in one game? Points Scored 		
	Stem Leaf		
	$\frac{2}{3}$ 0 2 4 8		
	$\frac{-3}{4}$ 1 8		
	5 2		
Question			
Question			
	(A) 5		
	(B) 8		
	(C) 10		
	(D) 52		
	(E) 58		
	A. Incorrect!		
	Review how to read a stem-and-leaf plot.		
	R Incorrecti		
	D. Incorrect: Peview how to read a stem-and-leaf plot		
6			
	C. Incorrect!		
	This is the smallest number of points scored by the team in one game.		
Feedback			
геейдаск	D. Correct!		
	You correctly read the largest number on the stem-and-lear plot.		
	F Incorrect!		
	Review how to read a stem-and-leaf plot.		
	In a stem-and-leaf plot, the number in the left column is the first digit in the		
	number and the number in the right column is the second number. The largest		
🤑 🖉	number in the plot is 52.		
	The correct answer is (D)		
Solution			

Question No. 4 of 10			
Instructions: (1) Read the problem and answer choices carefully (2) Work the problems on paper as			
needed (3) Pick t	needed (3) Pick the answer (4) Go back to review the core concept tutorial as needed.		
	How many pizz	as were sold with	the Spinach or Anchovies topping?
	Pizz	as Sold	
	Activity	Votes	
	Anchovies	111	
	Cheese	HTT HTT IIII	
2	Pepperoni	HHT 11	
	Sausage	HHT HHT II	
Question	Spinach	HTT 111	
_			
	(A) 3 (B) 8		
	(C) 11		
	(D) 14		
	(E) 44		
	A. Incorrect!		
	Review how to	read a frequency	table.
	B Incorrecti		
	Review how to	read a frequency	table.
1			
25	C. Correct!		
	You added the	frequencies for a	nchovies and spinach to find the final answer.
Foodback	D Incorrecti		
Feeuback	Review how to	read a frequency	table.
	E. Incorrect!		
	Review how to	read a frequency	table.
	Find the number	er of nizzas sold y	with anchovies and with spinach. Then add the
	values.		the anenoves and with spinder. Then add the
	Anchovice - 2	Chinach - 9	
<u> </u>	Anchovies = 3	Spinach = 8	
N.	3 + 8 = 11		
	The correct a	nswer is (C).	
Solution			

Question No. 5 of 10

Question no. 5 (
Instructions: (1	1) Read the problem and answer choices carefully (2) Work the problems on paper as
needed (3) Pick	the answer (4) Go back to review the core concept tutorial as needed.
	5. The bar graph shows the number of people who visited a museum each day in
	one week. Which day did the museum have the least visitors?
	Daily Visitors
	500 T
	> 400 ⊥
	9 300 +
Eme /	100 +
Question	Mon Tue Wed Thu Fri
Question	Dav
	Day
	(A) Monday
	(B) Tuesday
	(C) Wednesday
	(D) Thursday
	(E) Friday
	A. Incorrect!
	Find the day that has the shortest frequency bar.
	B. Incorrect!
	Find the day that has the shortest frequency bar.
	C. Incorrect!
	Find the day that has the shortest frequency bar.
- ALX	
Feedback	D. Correct!
	Thursday has the shortest frequency bar.
	F Incorrect!
	Find the day that has the shortest frequency bar.
	Find the day that has the shortest frequency has to find the day the museum had
	The losst number of vicitors. Thursday has the chartest frequency has
	the least number of visitors. Inuisuay has the shortest frequency Ddr.
<u> </u>	The correct answer is (D).
Solution	

Question No. 6 of 10

Trateuctiones (1) Read the problem and answer choices carefully (2) Work the problems on paper as	
Instructions: (1) Reductile problem and answer choices callefully (2) work the problems on paper as needed (2) Dick the answer (4) Co back to review the core concept tutorial as needed		
Question	 6. A dance team has to choose a new performance uniform. They can choose from 5 different tops, 3 bottoms, and 4 shoe types. How many different uniforms could the dance team put together? (A) 3 (B) 4 (C) 5 (D) 12 (E) 60 	
	A. Incorrect! Use the Fundamental Counting Principle to solve the problem.	
	B. Incorrect! Use the Fundamental Counting Principle to solve the problem.	
	C. Incorrect! Use the Fundamental Counting Principle to solve the problem.	
Feedback	D. Incorrect! Use the Fundamental Counting Principle to solve the problem.	
	E. Correct! You used the Fundamental Counting Principle to solve the problem.	
	Use the Fundamental Counting Principle to solve the problem.	
	tops × bottoms × shoes = $5 \times 3 \times 4 = 60$ outfits	
Solution	The correct answer is (E).	

Question No. 7 of 10

Question No. 7 C	
Instructions: (1	1) Read the problem and answer choices carefully (2) Work the problems on paper as
Question	 7. A teacher randomly chooses a class president, vice-president, and secretary by pulling names from a hat. There are 21 students in the class. How many different permutations of class officers are possible? (A) 3 (B) 24 (C) 63 (D) 1,330 (E) 7,980
	A. Incorrect! Use the permutation formula to find the answer.
6	B. Incorrect! Use the permutation formula to find the answer.
	C. Incorrect! Use the permutation formula to find the answer.
Геейраск	D. Incorrect! Use the permutation formula to find the answer.
	E. Correct! You used the permutation formula to find the answer.
	Use the permutation formula to find the answer.
	$P(21,3) = \frac{21!}{(21-3)!}$
	$=\frac{21!}{18!}$
Solution	$= 21 \times 20 \times 19$
Solution	= 7,980
	The correct answer is (E).

Question No. 8 of 10

Instructions: (2	1) Read the problem and answer choices carefully (2) Work the problems on paper as
needed (3) Pick	the answer (4) Go back to review the core concept tutorial as needed.
Question	 8. A small company needs to send a 4-person group to a conference. The company has 12 employees. How many different groups can the company send to the conference? (A) 4 (B) 12 (C) 495 (D) 11,880 (E) None of the above
	A. Incorrect! Use the combination formula to find the answer.
	B. Incorrect! Use the combination formula to find the answer.
	C. Correct! You used the combination formula to find the answer.
Feedback	D. Incorrect! Use the combination formula to find the answer.
	E. Incorrect! Use the combination formula to find the answer.
	Use the combination formula to find the answer.
Solution	$C(12, 4) = \frac{12!}{4!(12-4)!}$ = $\frac{12!}{4!8!}$ = $\frac{12 \times 11 \times 10 \times 9}{4 \times 3 \times 2 \times 1}$ = $\frac{11,880}{24}$ = 495
	The correct answer is (C).

Question No. 9 of 10

Instructions: (1) Read the problem and answer choices carefully (2) Work the problems on paper as		
Question	9. A pen box contains 5 black pens, 2 red pens, and 7 blue pens. What is the probability of randomly choosing a red pen from the box? (A) $\frac{1}{7}$ (B) $\frac{1}{2}$ (C) $\frac{5}{14}$ (D) $\frac{1}{6}$ (E) $\frac{5}{9}$	
Feedback	A. Correct! You found the ratio of the number of red pens to the total number of pens to solve the problem. B. Incorrect! Review the definition of probability. C. Incorrect! Review the definition of probability. D. Incorrect! Review the definition of probability. E. Incorrect! Review the definition of probability.	
Solution	Find the ratio of the number of red pens to the total number of pens to solve the problem. $P(\text{red}) = \frac{\# \text{ of red pens}}{\# \text{ of total pens}}$ $= \frac{2}{14}$ $= \frac{1}{7}$ The correct answer is (A).	

Question No. 10 of 10

Question no. 10	0110
Instructions: (1	L) Read the problem and answer choices carefully (2) Work the problems on paper as the answer (4) Go back to review the core concept tutorial as needed.
~ 7	10. What is the probability of choosing a blue marble from a bag that contains 32 green marbles?(A) 0%
Question	(B) 1% (C) 32% (D) 50% (E) 100%
	A. Correct! It is impossible to pull a blue marble from a bag of only green marbles.
	B. Incorrect! Review the definition of probability.
Feedback	C. Incorrect! Review the definition of probability.
	D. Incorrect! Review the definition of probability.
	E. Incorrect! Review the definition of probability.
	Find the ratio of the number of blue marbles to the total number of marbles to solve the problem.
r I	$P(\text{blue}) = \frac{\# \text{ of blue marbles}}{\# \text{ of total marbles}}$ $= \frac{0}{32}$
Solution	= 0% The correct answer is (A).