## **Introductory Econometrics Asia Pacific 1st Edition Wooldridge Test Bank**

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## **Chapter 3: Fundamentals of statistics: a review**

A B C D	Rolling a dice Coin toss Choosing a random number Guessing a number between 1 and 10										
	S: B ribut	ions	PTS:	1	DIF: Easy	TOP:	Random variables and their probability				
2. A B C	The number of red marbles in a jar  The number of heads when flipping three coins  The height of students in class										
ANS	S: c		PTS:	1	DIF: Easy	TOP:	Discrete random variables				
3. A B C D	The height of each student in a class  The weight of each student in class  The time it took to get to school										
4. A B C		Jsing			·		the expected value of <i>Y</i> =3X+6 where E( <i>X</i> )=3?				
ANS	S: A		PTS:	1	DIF: Moderate	TOP:	Properties of expected values				
5. A B C	24 18 12 6	Jsing	the p	roperties	of variance, what is t	he var	iance of Y=3X+6 where var(Y)=2?				
	S: B iatior	า	PTS:	1	DIF: Moderate	TOP:	Measures of variability: variance and standard				

6. Suppose E(X)=15, var(X)=9. Standardise the variable to obtain the expected value for Z.

- A 0
- B 15
- C 10
- D 5

ANS: A PTS: 1 DIF: Moderate TOP: Standardising a random variable

7. Suppose E(X)=15, var(X)=9. Standardise the variable to obtain the variance for Z.

- A 9
- B 1
- C 1/81
- D 0

ANS: B PTS: 1 DIF: Moderate TOP: Standardising a random variable

8. Which of the following can be var(2X+3Y-Z) can be simplified to?

- A 4var(X) + 9var(Y) + var(Z) + 12cov(X,Y) 4cov(X,Z) 6cov(Y,Z)
- B 4var(X) + 9var(Y) + var(Z) + 12cov(X,Y) + 4cov(X,Z) + 6cov(Y,Z)
- C 4var(X) + 9var(Y) var(Z) + 12cov(X,Y) 4cov(X,Z) 6cov(Y,Z)
- D 4var(X) + 9var(Y) + var(Z) + 12cov(X,Y) + 6cov(X,Z) + 4cov(Y,Z)

ANS: B PTS: 1 DIF: Hard TOP: Variance of sums of random variables

- 9. If  $X \sim \text{normal}(2, 4)$  then:
- A  $2X + 1 \sim \text{normal}(5,17)$
- B  $2X+1 \sim \text{normal}(5, 9)$
- C  $2X + 1 \sim \text{normal}(2,4)$
- D  $2X + 1 \sim \text{normal}(4, 16)$

ANS: A PTS: 1 DIF: Moderate TOP: The standard normal distribution

10. For a particular sample, the confidence interval is calculated as which of the following?

$$A \quad \left[ \bar{y} - c. \frac{s}{\sqrt{n}}, \bar{y} + c. \frac{s}{\sqrt{n}} \right]$$

B 
$$\left[\bar{y} + c.\frac{s}{\sqrt{n}}, \bar{y} - c.\frac{s}{\sqrt{n}}\right]$$

C 
$$\left[\bar{y} - c.\frac{s}{n}, \bar{y} + c.\frac{s}{n}\right]$$

D 
$$\left[\bar{y} + c.\frac{\bar{s}}{n}, \bar{y} - c.\frac{\bar{s}}{n}\right]$$

ANS: A PTS: 1 DIF: Easy TOP: Confidence intervals for the mean from a normally distributed population

11.	Wha	it is a ty	ype I error	-?									
Α	Failure to reject H₀ when it is actually false.												
В	Rejecting $H_0$ when it is true.												
С	Failure t	o rejec	t H <sub>0</sub> when	it is actually true.									
D													
ANS	S: B	PTS:	1	DIF: Easy	TOP:	Hypothesis testing							
12.													
Α													
В													
С		-		it is actually true.									
D	Rejectin	g H <sub>0</sub> WI	hen it is fa	ilse.									
ANS	S: A	PTS:	1	DIF: Easy	TOP:	Hypothesis testing							
13.	Wha	it is the	rejection	rule for a positive or	ne-tail	hypothesis test?							
Α	t < c												
	t > c												
_	t  < c												
D	t  > c												
ANS	S: B	PTS:	1	DIF: Easy	TOP:	Testing hypotheses about the mean in a							
nori	mal popu	ılation											
14.	In ge	eneral,	what do s	mall <i>p</i> -values indicate	e?								
Α	Small pr	obabili	ties										
В	Type I e	rrors											
С	Evidence	e for H	0										
D	Evidence	e again	st H <sub>0</sub>										
ANS	S: D	PTS:	1	DIF: Easy	TOP:	Computing and using <i>p</i> -values							
				•									
15. A discrete random variable is one that takes on only a finite number of values.													
ANS	S: T	PTS:	1	DIF: Easy	TOP:	Discrete random variables							
16. For a continuous random variable, the P(X=3.5)=0.													
ANS	S: T	PTS:	1	DIF: Easy	TOP:	Continuous random variables							
17. The numbers of goals kicked in an AFL game is dependent on the number of goals kicked in previous games.													

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ANS: F PTS: 1 DIF: Easy TOP: Joint distributions and independence

18. The mean and median can be the same.

ANS: T PTS: 1 DIF: Easy TOP: Another measure of central tendency: the

median