

No. 23: Each of the following situations relates to a different company. [image 1] For company D, find the missing amounts.

	Company A	Company B	Company C	Company D
1 Revenues	?	\$1,480,500	\$103,950	\$1,054,116
2 Expenses	\$455,490	1,518,300	78,120	?
3 Gains	0	?	4,725	8,505
4 Losses	32,760	0	5,670	39,312
5 Net Income or (Loss)	32,130	39,690	?	(58,275)

Options:

(A)\$1,081,584

(B)\$1,100,584

(C)\$1,034,325

(D)\$1,200,325

(E)\$1,125,325

(F)\$1,210,732

(G)\$1,150,732

(H)\$1,098,650

(I)\$1,075,732

(J)\$1,050,650

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No. 22: [image 1] A company wants to evaluate its attrition rate, in other words, how long new hires stay with the company. Over the years, they have established the following probability distribution. Let X - the number of years a new hire will stay with the company. Let $P(x)$ - the probability that a new hire will stay with the company x years. $P(x \geq 5) =$ _____

x	$P(x)$
0	0.12
1	0.18
2	0.30
3	0.15
4	
5	0.10
6	0.05

Options:

(A) 0.20

(B) 0.45

(C) 0.25

(D) 0.30

(E) 0.50

(F) 0.10

(G) 0.35

(H) 0.15

(I) 0.05

(J) 0.40

No. 23: For this item, we are asked to work with the data to solve for the area A enclosed by the traversed using the coordinate method. The table below shows the summarized data that will be needed for this item. [image 1]

Station	North (coordinate)	East (coordinate)
A	1607.65	1189.14
B	1000.00	1000.00
C	1025.76	1653.89
D	1606.28	1613.19

Options:

(A) $A = 332814.41 ft^2$ (B) $A = 272814.41 ft^2$

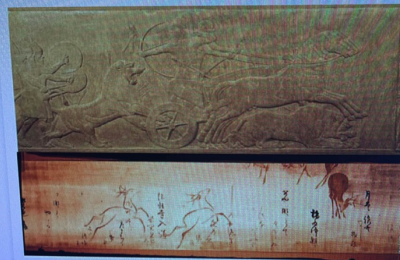
(C) $A = 252814.41 ft^2$ (D) $A = 322814.41 ft^2$

(E) $A = 282814.41 ft^2$ (F) $A = 242814.41 ft^2$

(G) $A = 312814.41 ft^2$ (H) $A = 302814.41 ft^2$

(I) $A = 262814.41 ft^2$ (J) $A = 292814.41 ft^2$

No. 14: What attitude toward nature do these two works exhibit? [image 1] [image 2]



Options:

(A) Scientific analyses of nature in the left work and subservience to nature in the right work

(B) Exaltation of nature in both works

(C) Scientific analyses of nature in both works

(D) Subservience to nature in both works

(E) Harmony with nature in the left work and conquest of nature in the right work

(F) Fear of nature in both works

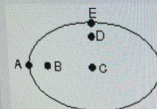
(G) Subservience to nature in the left work and fear of nature in the right work

(H) Exaltation of nature in the left work and fear of nature in the right work

(I) Fear of nature in the left work and exaltation of nature in the right work

(J) Conquest of nature in the left work and harmony with nature in the right work

No. 27: [image 1] The elliptical orbit of a planet around the Sun is shown on the diagram. Which of the following statements is true?



Options:

(A) the planet's orbit is a perfect circle

(B) the eccentricity of the orbit is greater than 1

(C) the eccentricity of the orbit is equal to 1

(D) the sun might be at point E

(E) the sun might be at point C

(F) the sun might be at point A

(G) the eccentricity of the orbit is less than zero

(H) the sun might be at point B

(I) the sun might be at point D

(J) the eccentricity of the orbit is zero