

Exam #8 - SOLUTION

Penalty for incorrect answer: 25%

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Answer	a	a	b	c	c	b	a	a	c	b	d	d	a	c	a	a	d	a	c	c

1. Calculus Q6: Solve for x... (Val: 1.1940298507462686)

- a **Answer A (Correct) - Calculus Q6 [CORRECT]**
- b Answer B (Wrong) - Calculus Q6
- c Answer D (Wrong) - Calculus Q6
- d Answer C (Wrong) - Calculus Q6

2. Mean of {2,4,6,8,10}? (Val: 0.8955223880597014)

- a **6 [CORRECT]**
- b 7
- c 8
- d 5

3. Algebra Q10: Solve for x... (Val: 1.1940298507462686)

- a Answer D (Wrong) - Algebra Q10
- b **Answer A (Correct) - Algebra Q10 [CORRECT]**
- c Answer B (Wrong) - Algebra Q10
- d Answer C (Wrong) - Algebra Q10

4. What is cos(0 degrees)? (Val: 0.5970149253731343)

- a 0
- b -1
- c **1 [CORRECT]**
- d sqrt3/2

5. Calculus Q9: Solve for x... (Val: 1.1940298507462686)

- a Answer D (Wrong) - Calculus Q9
- b Answer B (Wrong) - Calculus Q9
- c **Answer A (Correct) - Calculus Q9 [CORRECT]**
- d Answer C (Wrong) - Calculus Q9

6. Pythagorean theorem: a squared + b squared = ? (Val: 0.8955223880597014)

- a 2c
- b **c squared [CORRECT]**
- c ab
- d a+b

7. Algebra Q9: Solve for x... (Val: 1.1940298507462686)

- a **Answer A (Correct) - Algebra Q9 [CORRECT]**
- b Answer B (Wrong) - Algebra Q9
- c Answer C (Wrong) - Algebra Q9
- d Answer D (Wrong) - Algebra Q9

8. Algebra Q5: Solve for x... (*Val:* 1.1940298507462686)

- a **Answer A (Correct) - Algebra Q5 [CORRECT]**
- b Answer C (Wrong) - Algebra Q5
- c Answer D (Wrong) - Algebra Q5
- d Answer B (Wrong) - Algebra Q5

9. Calculus Q2: Solve for x... (*Val:* 1.1940298507462686)

- a Answer B (Wrong) - Calculus Q2
- b Answer C (Wrong) - Calculus Q2
- c **Answer A (Correct) - Calculus Q2 [CORRECT]**
- d Answer D (Wrong) - Calculus Q2

10. How many sides in a hexagon? (*Val:* 0.8955223880597014)

- a 8
- b **6 [CORRECT]**
- c 7
- d 5

11. What is the complement of $P(A)$? (*Val:* 0.8955223880597014)

- a $1/P(A)$
- b $P(A)$
- c $1+P(A)$
- d **1-P(A) [CORRECT]**

12. Standard deviation measures what? (*Val:* 0.8955223880597014)

- a Range
- b Center
- c Mode
- d **Spread [CORRECT]**

13. Algebra Q8: Solve for x... (*Val:* 1.1940298507462686)

- a **Answer A (Correct) - Algebra Q8 [CORRECT]**
- b Answer B (Wrong) - Algebra Q8
- c Answer D (Wrong) - Algebra Q8
- d Answer C (Wrong) - Algebra Q8

14. What is $\tan(0 \text{ degrees})$? (*Val:* 0.5970149253731343)

- a undefined
- b 1
- c **0 [CORRECT]**

d infinity

15. Algebra Q7: Solve for x... (Val: 1.1940298507462686)

- a **Answer A (Correct) - Algebra Q7 [CORRECT]**
- b Answer D (Wrong) - Algebra Q7
- c Answer B (Wrong) - Algebra Q7
- d Answer C (Wrong) - Algebra Q7

16. Calculus Q5: Solve for x... (Val: 1.1940298507462686)

- a **Answer A (Correct) - Calculus Q5 [CORRECT]**
- b Answer D (Wrong) - Calculus Q5
- c Answer B (Wrong) - Calculus Q5
- d Answer C (Wrong) - Calculus Q5

17. Range of {10,20,30,40}? (Val: 0.8955223880597014)

- a 40
- b 20
- c 50
- d **30 [CORRECT]**

18. Perimeter of a square with side 4? (Val: 0.8955223880597014)

- a **16 [CORRECT]**
- b 8
- c 20
- d 12

19. Calculus Q4: Solve for x... (Val: 1.1940298507462686)

- a Answer C (Wrong) - Calculus Q4
- b Answer D (Wrong) - Calculus Q4
- c **Answer A (Correct) - Calculus Q4 [CORRECT]**
- d Answer B (Wrong) - Calculus Q4

20. What is cos(60 degrees)? (Val: 0.5970149253731343)

- a 0
- b 1
- c **1/2 [CORRECT]**
- d sqrt3/2