

1. What is a set?

- A. A collection of distinct objects
- B. A collection of all objects
- C. A collection of some objects
- D. A collection of no objects

2. Which of the following is an example of a set?

- A. $\{1, 2, 3, 4, 5\}$
- B. $\{2, 4, 6, 8, 10\}$
- C. $\{1, 3, 5, 7, 9\}$
- D. $\{0, 2, 4, 6, 8\}$

3. Which of the following is NOT an example of a set?

- A. $\{1, 2, 3, 4, 5\}$
- B. $\{2, 4, 6, 8, 10\}$
- C. $\{1, 3, 5, 7, 9\}$
- D. $\{0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$

4. Which of the following is an example of a subset?

- A. $\{1, 2, 3, 4, 5\}$
- B. $\{2, 4, 6, 8, 10\}$
- C. $\{1, 3, 5, 7, 9\}$
- D. $\{0, 2, 4, 6, 8\}$

5. Which of the following is NOT an example of a subset?

- A. $\{1, 2, 3, 4, 5\}$
- B. $\{2, 4, 6, 8, 10\}$
- C. $\{1, 3, 5, 7, 9\}$
- D. $\{0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$

6. Which of the following is an example of a proper subset?

- A. $\{1, 2, 3, 4, 5\}$
- B. $\{2, 4, 6, 8, 10\}$
- C. $\{1, 3, 5, 7, 9\}$

D. $\{0, 2, 4, 6, 8\}$

7. Which of the following is NOT an example of a proper subset?

A. $\{1, 2, 3, 4, 5\}$

B. $\{2, 4, 6, 8, 10\}$

C. $\{1, 3, 5, 7, 9\}$

D. $\{0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$

8. Which of the following is an example of the empty set?

A. $\{1, 2, 3, 4, 5\}$

B. $\{2, 4, 6, 8, 10\}$

C. $\{1, 3, 5, 7, 9\}$

D. $\{\}$

9. Which of the following is NOT an example of the empty set?

A. $\{1, 2, 3, 4, 5\}$

B. $\{2, 4, 6, 8, 10\}$

C. $\{1, 3, 5, 7, 9\}$

D. $\{0\}$

10. Which of the following is an example of a universal set?

A. $\{1, 2, 3, 4, 5\}$

B. $\{2, 4, 6, 8, 10\}$

C. $\{1, 3, 5, 7, 9\}$

D. U

11. Which of the following is NOT an example of a universal set?

A. $\{1, 2, 3, 4, 5\}$

B. $\{2, 4, 6, 8, 10\}$

C. $\{1, 3, 5, 7, 9\}$

D. $\{0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$

12. Which of the following is an example of the complement of a set?

A. $\{1, 2, 3, 4, 5\}$

B. $\{2, 4, 6, 8, 10\}$

C. $\{1, 3, 5, 7, 9\}$

D. $\{0, 2, 4, 6, 8\}$

13. Which of the following is NOT an example of the complement of a set?

A. $\{1, 2, 3, 4, 5\}$

B. $\{2, 4, 6, 8, 10\}$

C. $\{1, 3, 5, 7, 9\}$

D. $\{0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$

14. Which of the following is an example of the union of two sets?

A. $\{1, 2, 3, 4, 5\}$

B. $\{2, 4, 6, 8, 10\}$

C. $\{1, 3, 5, 7, 9\}$

D. $\{0, 2, 4, 6, 8\}$

15. Which of the following is NOT an example of the union of two sets?

A. $\{1, 2, 3, 4, 5\}$

B. $\{2, 4, 6, 8, 10\}$

C. $\{1, 3, 5, 7, 9\}$

D. $\{0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$

16. Which of the following is an example of the intersection of two sets?

A. $\{1, 2, 3, 4, 5\}$

B. $\{2, 4, 6, 8, 10\}$

C. $\{1, 3, 5, 7, 9\}$

D. $\{0, 2, 4, 6, 8\}$

17. Which of the following is NOT an example of the intersection of two sets?

A. $\{1, 2, 3, 4, 5\}$

B. $\{2, 4, 6, 8, 10\}$

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18. Which of the following is an example of the difference of two sets?

A. $\{1, 2, 3, 4, 5\}$

B. $\{2, 4, 6, 8, 10\}$

C. $\{1, 3, 5, 7, 9\}$

D. $\{0, 2, 4, 6, 8\}$

19. Which of the following is NOT an example of the difference of two sets?

A. $\{1, 2, 3, 4, 5\}$

B. $\{2, 4, 6, 8, 10\}$

C. $\{1, 3, 5, 7, 9\}$

D. $\{0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$

20. Which of the following is an example of the symmetric difference of two sets?

A. $\{1, 2, 3, 4, 5\}$

B. $\{2, 4, 6, 8, 10\}$

C. $\{1, 3, 5, 7, 9\}$

D. $\{0, 2, 4, 6, 8\}$

21. Which of the following is NOT an example of the symmetric difference of two sets?

A. $\{1, 2, 3, 4, 5\}$

B. $\{2, 4, 6, 8, 10\}$

C. $\{1, 3, 5, 7, 9\}$

D. $\{0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$

22. Which of the following is an example of the cartesian product of two sets?

A. $\{1, 2, 3, 4, 5\}$

B. $\{2, 4, 6, 8, 10\}$

C. $\{1, 3, 5, 7, 9\}$

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23. Which of the following is NOT an example of the cartesian product of two sets?

A. $\{1, 2, 3, 4, 5\}$

B. $\{2, 4, 6, 8, 10\}$

C. $\{1, 3, 5, 7, 9\}$

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24. Which of the following is an example of a power set?

- A. $\{1, 2, 3, 4, 5\}$
- B. $\{2, 4, 6, 8, 10\}$
- C. $\{1, 3, 5, 7, 9\}$
- D. $\{0, 2, 4, 6, 8\}$

25. Which of the following is NOT an example of a power set?

- A. $\{1, 2, 3, 4, 5\}$
- B. $\{2, 4, 6, 8, 10\}$
- C. $\{1, 3, 5, 7, 9\}$
- D. $\{0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$

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11. Which of the following is NOT an example of a universal set?

A. {1, 2, 3, 4, 5}

B. {2, 4, 6, 8, 10}

C. {1, 3, 5, 7, 9}

D. {0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10}

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A. {1, 2, 3, 4, 5}

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23. Which of the following is NOT an example of the cartesian product of two sets?

A. $\{1, 2, 3,$