



THE MATH HUB

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SETS, VENN DIAGRAMS, SYMBOLS ROUNDING & APPROXIMATION MCQs

100 FULLY SOLVED MCQs

PPSC, FPSC & ONE PAPER EXAMS

NTS • CSS MPT • PMS • Government Job Tests

Sets • Venn Diagrams • Symbols • Rounding • Approximation

Prepared by

MEHREEN KANWAL

MPhil Mathematics

RANA ALI HASAN

MPhil Mathematics

The Math Hub - themathhub.pk | 0301-4058484

The Science Academy - Chak No. 84 NB



**SETS, VENN DIAGRAMS, SYMBOLS, ROUNDING & APPROXIMATION
MCQs | 100 FULLY SOLVED MCQs****Fast Foundation for One-Paper Exams****Two-set union**

$$n(A \cup B) = n(A) + n(B) - n(A \cap B)$$

Three-set union

$$n(A \cup B \cup C) = \sum n(A) - \sum n(A \cap B) + n(A \cap B \cap C)$$

Complement

$$n(A^c) = n(U) - n(A)$$

Rounding

Next digit $\geq 5 \Rightarrow$ round up

Symbols

$\in, \notin, \subseteq, \cup, \cap, \geq, \leq$

Estimation

Round first, then calculate

Set Language and Basic Operations

MCQ 1

If $A = \{1, 2, 3, 4\}$, which symbol correctly completes $2 _ A$?

- A. $\in$ B. $\notin$
C. $\subset$ D. $=$

Solution

$$2 \in A$$

Final Answer

 $\in$

MCQ 2

If $A = \{2, 4, 6, 8\}$, which symbol correctly completes $5 _ A$?

- A. $\in$ B. $\subset$
C. $=$ D. $\notin$

Solution

$$5 \notin A$$

Final Answer

 $\notin$

MCQ 3

If $A = \{3, 6, 9\}$, which symbol correctly completes $9 _ A$?

- A. $\subset$ B. $=$
C. $\in$ D. $\notin$

Solution

$$9 \in A$$

Final Answer

 $\in$

MCQ 4

If $A = \{5, 10, 15, 20\}$, which symbol correctly completes $12 _ A$?

- A. $=$ B. $\notin$
C. $\in$ D. $\subset$

Solution

$$12 \notin A$$

Final Answer

 $\notin$

MCQ 5

If $A = \{1, 3, 5, 7, 9\}$, which symbol correctly completes $7 _ A$?

- A. $\in$ B. $\notin$
C. $\subset$ D. $=$

Solution

$$7 \in A$$

Final Answer

 $\in$

MCQ 6

Find $n(A)$ if $A = \{1, 2, 3\}$.

- A. 4 B. 2
C. 5 D. 3

Solution

$$n(A) = 3$$

Final Answer

3

MCQ 7

Find $n(A)$ if $A = \{2, 4, 6, 8\}$.

- A. 3 B. 6
C. 4 D. 5

Solution

$$n(A) = 4$$

Final Answer

4

MCQ 8

Find $n(A)$ if $A = \{1, 3, 5, 7, 9\}$.

- A. 7 B. 5
C. 6 D. 4

Solution

$$n(A) = 5$$

Final Answer

5

MCQ 9

Find $n(A)$ if $A = \{10, 20\}$.

- A. 2 B. 3
C. 1 D. 4

Solution

$$n(A) = 2$$

Final Answer

2

MCQ 10Find $n(A)$ if $A = \{0, 1, 2, 3, 4, 5\}$.

- A. 7 B. 5
C. 8 D. 6

Solution

$$n(A) = 6$$

Final Answer

6

MCQ 11If $A = \{1, 2, 3\}$ and $B = \{3, 4, 5\}$, find $A \cup B$.

- A. $\{3, 4, 5\}$ B. $\{3\}$
C. $\{1, 2, 3, 4, 5\}$ D. $\{1, 2, 3\}$

Solution

$$A \cup B = \{1, 2, 3, 4, 5\}$$

Final Answer $\{1, 2, 3, 4, 5\}$ **MCQ 12**If $A = \{2, 4, 6\}$ and $B = \{4, 6, 8\}$, find $A \cup B$.

- A. $\{4, 6\}$ B. $\{2, 4, 6, 8\}$
C. $\{2, 4, 6\}$ D. $\{4, 6, 8\}$

Solution

$$A \cup B = \{2, 4, 6, 8\}$$

Final Answer $\{2, 4, 6, 8\}$ **MCQ 13**If $A = \{1, 3, 5\}$ and $B = \{2, 4, 6\}$, find $A \cup B$.

- A. $\{1, 2, 3, 4, 5, 6\}$ B. $\{1, 3, 5\}$
C. $\{2, 4, 6\}$ D. $\{\}$

Solution

$$A \cup B = \{1, 2, 3, 4, 5, 6\}$$

Final Answer $\{1, 2, 3, 4, 5, 6\}$ **MCQ 14**If $A = \{1, 2, 4, 8\}$ and $B = \{2, 8, 10\}$, find $A \cup B$.

- A. $\{1, 2, 4, 8\}$ B. $\{2, 8, 10\}$
C. $\{2, 8\}$ D. $\{1, 2, 4, 8, 10\}$

Solution

$$A \cup B = \{1, 2, 4, 8, 10\}$$

Final Answer $\{1, 2, 4, 8, 10\}$ **MCQ 15**If $A = \{0, 1, 2\}$ and $B = \{2, 3, 4\}$, find $A \cup B$.

- A. $\{2, 3, 4\}$ B. $\{2\}$
C. $\{0, 1, 2, 3, 4\}$ D. $\{0, 1, 2\}$

Solution

$$A \cup B = \{0, 1, 2, 3, 4\}$$

Final Answer $\{0, 1, 2, 3, 4\}$ **MCQ 16**If $A = \{1, 2, 3\}$ and $B = \{3, 4, 5\}$, find $A \cap B$.

- A. $\{4, 5\}$ B. $\{3\}$
C. $\{1, 2, 3, 4, 5\}$ D. $\{1, 2\}$

Solution

$$A \cap B = \{3\}$$

Final Answer $\{3\}$ **MCQ 17**If $A = \{2, 4, 6\}$ and $B = \{4, 6, 8\}$, find $A \cap B$.

- A. $\{4, 6\}$ B. $\{2, 4, 6, 8\}$
C. $\{2\}$ D. $\{8\}$

Solution

$$A \cap B = \{4, 6\}$$

Final Answer $\{4, 6\}$ **MCQ 18**If $A = \{1, 3, 5\}$ and $B = \{2, 4, 6\}$, find $A \cap B$.

- A. $\{1, 2, 3, 4, 5, 6\}$ B. $\{1, 3, 5\}$
C. $\{2, 4, 6\}$ D. $\emptyset$

Solution

$$A \cap B = \emptyset$$

Final Answer $\emptyset$ **MCQ 19**If $A = \{1, 2, 4, 8\}$ and $B = \{2, 8, 10\}$, find $A \cap B$.

- A. $\{1, 4\}$ B. $\{10\}$
C. $\{2, 8\}$ D. $\{1, 2, 4, 8, 10\}$

Solution

$$A \cap B = \{2, 8\}$$

Final Answer $\{2, 8\}$

MCQ 20

If $A = \{0, 1, 2\}$ and $B = \{2, 3, 4\}$, find $A \cap B$.

- A. $\{3, 4\}$ B. $\{2\}$
 C. $\{0, 1, 2, 3, 4\}$ D. $\{0, 1\}$

Solution

$$A \cap B = \{2\}$$

Final Answer

{2}

Two-Set Venn Problems**MCQ 21**

In a group of 40, $n(A) = 22$, $n(B) = 18$, and $n(A \cap B) = 8$. Find $n(A \cup B)$.

- A. 32 B. 34
 C. 29 D. 37

Solution

$$n(A \cup B) = 22 + 18 - 8 = 32$$

Final Answer

32

MCQ 22

In a group of 40, $n(A) = 22$, $n(B) = 18$, and $n(A \cap B) = 8$. How many are in neither set?

- A. 10 B. 5
 C. 13 D. 8

Solution

$$n(A \cup B) = 22 + 18 - 8 = 32$$

$$\text{Neither} = 40 - 32 = 8$$

Final Answer

8

MCQ 23

In a group of 50, $n(A) = 28$, $n(B) = 25$, and $n(A \cap B) = 10$. Find $n(A \cup B)$.

- A. 40 B. 48
 C. 43 D. 45

Solution

$$n(A \cup B) = 28 + 25 - 10 = 43$$

Final Answer

43

MCQ 24

In a group of 50, $n(A) = 28$, $n(B) = 25$, and $n(A \cap B) = 10$. How many are in neither set?

- A. 12 B. 7
 C. 9 D. 4

Solution

$$n(A \cup B) = 28 + 25 - 10 = 43$$

$$\text{Neither} = 50 - 43 = 7$$

Final Answer

7

MCQ 25

In a group of 60, $n(A) = 35$, $n(B) = 30$, and $n(A \cap B) = 15$. Find $n(A \cup B)$.

- A. 50 B. 52
 C. 47 D. 55

Solution

$$n(A \cup B) = 35 + 30 - 15 = 50$$

Final Answer

50

MCQ 26

In a group of 60, $n(A) = 35$, $n(B) = 30$, and $n(A \cap B) = 15$. How many are in neither set?

- A. 12 B. 7
 C. 15 D. 10

Solution

$$n(A \cup B) = 35 + 30 - 15 = 50$$

$$\text{Neither} = 60 - 50 = 10$$

Final Answer

10

MCQ 27

In a group of 45, $n(A) = 20$, $n(B) = 24$, and $n(A \cap B) = 9$. Find $n(A \cup B)$.

- A. 32 B. 40
 C. 35 D. 37

Solution

$$n(A \cup B) = 20 + 24 - 9 = 35$$

Final Answer

35

MCQ 28

In a group of 45, $n(A) = 20$, $n(B) = 24$, and $n(A \cap B) = 9$. How many are in neither set?

- A. 15 B. 10
C. 12 D. 7

Solution

$$n(A \cup B) = 20 + 24 - 9 = 35$$

$$\text{Neither} = 45 - 35 = 10$$

Final Answer

10

MCQ 29

In a group of 80, $n(A) = 46$, $n(B) = 38$, and $n(A \cap B) = 20$. Find $n(A \cup B)$.

- A. 64 B. 66
C. 61 D. 69

Solution

$$n(A \cup B) = 46 + 38 - 20 = 64$$

Final Answer

64

MCQ 30

In a group of 80, $n(A) = 46$, $n(B) = 38$, and $n(A \cap B) = 20$. How many are in neither set?

- A. 18 B. 13
C. 21 D. 16

Solution

$$n(A \cup B) = 46 + 38 - 20 = 64$$

$$\text{Neither} = 80 - 64 = 16$$

Final Answer

16

MCQ 31

In a group of 70, $n(A) = 40$, $n(B) = 32$, and $n(A \cap B) = 18$. Find $n(A \cup B)$.

- A. 51 B. 59
C. 54 D. 56

Solution

$$n(A \cup B) = 40 + 32 - 18 = 54$$

Final Answer

54

MCQ 32

In a group of 70, $n(A) = 40$, $n(B) = 32$, and $n(A \cap B) = 18$. How many are in neither set?

- A. 21 B. 16
C. 18 D. 13

Solution

$$n(A \cup B) = 40 + 32 - 18 = 54$$

$$\text{Neither} = 70 - 54 = 16$$

Final Answer

16

MCQ 33

In a group of 55, $n(A) = 31$, $n(B) = 27$, and $n(A \cap B) = 12$. Find $n(A \cup B)$.

- A. 46 B. 48
C. 43 D. 51

Solution

$$n(A \cup B) = 31 + 27 - 12 = 46$$

Final Answer

46

MCQ 34

In a group of 55, $n(A) = 31$, $n(B) = 27$, and $n(A \cap B) = 12$. How many are in neither set?

- A. 11 B. 6
C. 14 D. 9

Solution

$$n(A \cup B) = 31 + 27 - 12 = 46$$

$$\text{Neither} = 55 - 46 = 9$$

Final Answer

9

MCQ 35

In a group of 90, $n(A) = 50$, $n(B) = 45$, and $n(A \cap B) = 25$. Find $n(A \cup B)$.

- A. 67 B. 75
C. 70 D. 72

Solution

$$n(A \cup B) = 50 + 45 - 25 = 70$$

Final Answer

70

MCQ 36

In a group of 90, $n(A) = 50$, $n(B) = 45$, and $n(A \cap B) = 25$. How many are in neither set?

- A. 25 B. 20
C. 22 D. 17

Solution

$$n(A \cup B) = 50 + 45 - 25 = 70$$

$$\text{Neither} = 90 - 70 = 20$$

Final Answer

20

MCQ 37

In a group of 65, $n(A) = 36$, $n(B) = 29$, and $n(A \cap B) = 14$. Find $n(A \cup B)$.

- A. 51 B. 53
C. 48 D. 56

Solution

$$n(A \cup B) = 36 + 29 - 14 = 51$$

Final Answer

51

MCQ 38

In a group of 65, $n(A) = 36$, $n(B) = 29$, and $n(A \cap B) = 14$. How many are in neither set?

- A. 16 B. 11
C. 19 D. 14

Solution

$$n(A \cup B) = 36 + 29 - 14 = 51$$

$$\text{Neither} = 65 - 51 = 14$$

Final Answer

14

MCQ 39

In a group of 100, $n(A) = 60$, $n(B) = 55$, and $n(A \cap B) = 30$. Find $n(A \cup B)$.

- A. 82 B. 90
C. 85 D. 87

Solution

$$n(A \cup B) = 60 + 55 - 30 = 85$$

Final Answer

85

MCQ 40

In a group of 100, $n(A) = 60$, $n(B) = 55$, and $n(A \cap B) = 30$. How many are in neither set?

- A. 20 B. 15
C. 17 D. 12

Solution

$$n(A \cup B) = 60 + 55 - 30 = 85$$

$$\text{Neither} = 100 - 85 = 15$$

Final Answer

15

Only-One and Three-Set Problems**MCQ 41**

If $n(A) = 22$, $n(B) = 18$, and $n(A \cap B) = 8$, find the number in A only.

- A. 14 B. 15
C. 12 D. 18

Solution

$$\text{A only} = 22 - 8 = 14$$

Final Answer

14

MCQ 42

If $n(A) = 22$, $n(B) = 18$, and $n(A \cap B) = 8$, find the number in B only.

- A. 11 B. 8
C. 14 D. 10

Solution

$$\text{B only} = 18 - 8 = 10$$

Final Answer

10

MCQ 43

If $n(A) = 28$, $n(B) = 25$, and $n(A \cap B) = 10$, find the number in A only.

- A. 16 B. 22
C. 18 D. 19

Solution

$$\text{A only} = 28 - 10 = 18$$

Final Answer

18

MCQ 44

If $n(A) = 28$, $n(B) = 25$, and $n(A \cap B) = 10$, find the number in B only.

- A. 19 B. 15
C. 16 D. 13

Solution

$$B \text{ only} = 25 - 10 = 15$$

Final Answer

15

MCQ 45

If $n(A) = 35$, $n(B) = 30$, and $n(A \cap B) = 15$, find the number in A only.

- A. 20 B. 21
C. 18 D. 24

Solution

$$A \text{ only} = 35 - 15 = 20$$

Final Answer

20

MCQ 46

If $n(A) = 35$, $n(B) = 30$, and $n(A \cap B) = 15$, find the number in B only.

- A. 16 B. 13
C. 19 D. 15

Solution

$$B \text{ only} = 30 - 15 = 15$$

Final Answer

15

MCQ 47

If $n(A) = 20$, $n(B) = 24$, and $n(A \cap B) = 9$, find the number in A only.

- A. 9 B. 15
C. 11 D. 12

Solution

$$A \text{ only} = 20 - 9 = 11$$

Final Answer

11

MCQ 48

If $n(A) = 20$, $n(B) = 24$, and $n(A \cap B) = 9$, find the number in B only.

- A. 19 B. 15
C. 16 D. 13

Solution

$$B \text{ only} = 24 - 9 = 15$$

Final Answer

15

MCQ 49

If $n(A) = 46$, $n(B) = 38$, and $n(A \cap B) = 20$, find the number in A only.

- A. 26 B. 27
C. 24 D. 30

Solution

$$A \text{ only} = 46 - 20 = 26$$

Final Answer

26

MCQ 50

If $n(A) = 46$, $n(B) = 38$, and $n(A \cap B) = 20$, find the number in B only.

- A. 19 B. 16
C. 22 D. 18

Solution

$$B \text{ only} = 38 - 20 = 18$$

Final Answer

18

MCQ 51

In a group of 100, $n(A) = 50$, $n(B) = 45$, $n(C) = 40$, pairwise intersections are 20, 18, 15, and $n(A \cap B \cap C) = 8$. Find the number in at least one set.

- A. 86 B. 97
C. 90 D. 93

Solution

$$n(A \cup B \cup C) = 50 + 45 + 40 - 20 - 18 - 15 + 8 = 90$$

Final Answer

90

MCQ 52

In a group of 100, $n(A) = 50$, $n(B) = 45$, $n(C) = 40$, pair-wise intersections are 20, 18, 15, and $n(A \cap B \cap C) = 8$. Find the number in none of the three sets.

- A. 17 B. 10
C. 13 D. 6

Solution

$$n(A \cup B \cup C) = 50 + 45 + 40 - 20 - 18 - 15 + 8 = 90$$

$$\text{None} = 100 - 90 = 10$$

Final Answer

10

MCQ 53

In a group of 120, $n(A) = 60$, $n(B) = 55$, $n(C) = 50$, pair-wise intersections are 25, 20, 18, and $n(A \cap B \cap C) = 10$. Find the number in at least one set.

- A. 112 B. 115
C. 108 D. 119

Solution

$$n(A \cup B \cup C) = 60 + 55 + 50 - 25 - 20 - 18 + 10 = 112$$

Final Answer

112

MCQ 54

In a group of 120, $n(A) = 60$, $n(B) = 55$, $n(C) = 50$, pair-wise intersections are 25, 20, 18, and $n(A \cap B \cap C) = 10$. Find the number in none of the three sets.

- A. 11 B. 4
C. 15 D. 8

Solution

$$n(A \cup B \cup C) = 60 + 55 + 50 - 25 - 20 - 18 + 10 = 112$$

$$\text{None} = 120 - 112 = 8$$

Final Answer

8

MCQ 55

In a group of 80, $n(A) = 42$, $n(B) = 38$, $n(C) = 35$, pair-wise intersections are 16, 14, 12, and $n(A \cap B \cap C) = 6$. Find the number in at least one set.

- A. 75 B. 86
C. 79 D. 82

Solution

$$n(A \cup B \cup C) = 42 + 38 + 35 - 16 - 14 - 12 + 6 = 79$$

Final Answer

79

MCQ 56

In a group of 80, $n(A) = 42$, $n(B) = 38$, $n(C) = 35$, pair-wise intersections are 16, 14, 12, and $n(A \cap B \cap C) = 6$. Find the number in none of the three sets.

- A. 8 B. 1
C. 4 D. 0

Solution

$$n(A \cup B \cup C) = 42 + 38 + 35 - 16 - 14 - 12 + 6 = 79$$

$$\text{None} = 80 - 79 = 1$$

Final Answer

1

MCQ 57

In a group of 90, $n(A) = 48$, $n(B) = 44$, $n(C) = 36$, pair-wise intersections are 18, 17, 13, and $n(A \cap B \cap C) = 7$. Find the number in at least one set.

- A. 87 B. 90
C. 83 D. 94

Solution

$$n(A \cup B \cup C) = 48 + 44 + 36 - 18 - 17 - 13 + 7 = 87$$

Final Answer

87

MCQ 58

In a group of 90, $n(A) = 48$, $n(B) = 44$, $n(C) = 36$, pair-wise intersections are 18, 17, 13, and $n(A \cap B \cap C) = 7$. Find the number in none of the three sets.

- A. 6 B. 0
C. 10 D. 3

Solution

$$n(A \cup B \cup C) = 48 + 44 + 36 - 18 - 17 - 13 + 7 = 87$$

$$\text{None} = 90 - 87 = 3$$

Final Answer

3

MCQ 59

In a group of 150, $n(A) = 80$, $n(B) = 70$, $n(C) = 65$, pair-wise intersections are 30, 28, 25, and $n(A \cap B \cap C) = 12$. Find the number in at least one set.

- A. 140 B. 151
C. 144 D. 147

Solution

$$n(A \cup B \cup C) = 80 + 70 + 65 - 30 - 28 - 25 + 12 = 144$$

Final Answer

144

MCQ 60

In a group of 150, $n(A) = 80$, $n(B) = 70$, $n(C) = 65$, pair-wise intersections are 30, 28, 25, and $n(A \cap B \cap C) = 12$. Find the number in none of the three sets.

- A. 13 B. 6
C. 9 D. 2

Solution

$$n(A \cup B \cup C) = 80 + 70 + 65 - 30 - 28 - 25 + 12 = 144$$

$$\text{None} = 150 - 144 = 6$$

Final Answer

6

Symbols and Relations**MCQ 61**

Which statement is equivalent to $x \geq 5$?

- A. $x > 5$ or $x = 5$ B. $x < 5$
C. $x > 5$ only D. $x \leq 5$

Solution

$$x > 5 \text{ or } x = 5$$

Final Answer $x > 5 \text{ or } x = 5$ **MCQ 62**

What does $A \subseteq B$ mean?

- A. $A \cap B = \emptyset$ B. $A = B$ always
C. Every element of B is in A D. Every element of A is in B

Solution

Every element of A is in B

Final AnswerEvery element of A is in B **MCQ 63**

What does A^c represent?

- A. Only elements of A B. $A \cap U$
C. Elements outside A in the universal set D. $A \cup A$

Solution

Elements outside A in the universal set

Final AnswerElements outside A in the universal set**MCQ 64**

Which symbol denotes the empty set?

- A. $\subset$ B. $\emptyset$
C. $\in$ D. $\cup$

Solution $\emptyset$ **Final Answer** $\emptyset$ **MCQ 65**

Which symbol means "is an element of"?

- A. $\in$ B. $\subset$
C. $\cap$ D. $\geq$

Solution $\in$ **Final Answer** $\in$ **MCQ 66**

Is the statement $7 > 5$ true?

- A. False B. Undefined
C. Cannot say D. True

Solution

$$7 > 5 \quad \checkmark$$

Final Answer

True

MCQ 67Is the statement $3 < 9$ true?

- A. Undefined B. Cannot say
C. True D. False

Solution

$$3 < 9 \quad \checkmark$$

Final Answer

True

MCQ 68Is the statement $6 = 6$ true?

- A. Cannot say B. True
C. False D. Undefined

Solution

$$6 = 6 \quad \checkmark$$

Final Answer

True

MCQ 69Is the statement $10 \leq 10$ true?

- A. True B. False
C. Undefined D. Cannot say

Solution

$$10 \leq 10 \quad \checkmark$$

Final Answer

True

MCQ 70Is the statement $12 \geq 11$ true?

- A. False B. Undefined
C. Cannot say D. True

Solution

$$12 \geq 11 \quad \checkmark$$

Final Answer

True

Rounding and Significant Figures**MCQ 71**

Round 47 to the nearest ten.

- A. 40 B. 70
C. 50 D. 60

Solution

$$47 \approx 50$$

Final Answer

50

MCQ 72

Round 143 to the nearest ten.

- A. 160 B. 140
C. 150 D. 130

Solution

$$143 \approx 140$$

Final Answer

140

MCQ 73

Round 386 to the nearest hundred.

- A. 400 B. 500
C. 300 D. 600

Solution

$$386 \approx 400$$

Final Answer

400

MCQ 74

Round 1249 to the nearest hundred.

- A. 1300 B. 1100
C. 1400 D. 1200

Solution

$$1249 \approx 1200$$

Final Answer

1200

MCQ 75

Round 1785 to the nearest thousand.

- A. 1000 B. 4000
C. 2000 D. 3000

Solution

$$1785 \approx 2000$$

Final Answer

2000

MCQ 76

Round 6.47 to the nearest whole number.

- A. 8 B. 6
C. 7 D. 5

Solution

$$6.47 \approx 6$$

Final Answer

6

MCQ 77

Round 6.58 to the nearest whole number.

- A. 7 B. 8
C. 6 D. 9

Solution

$$6.58 \approx 7$$

Final Answer

7

MCQ 78

Round 12.346 to the nearest tenth.

- A. 12.4 B. 12.2
C. 12.5 D. 12.3

Solution

$$12.346 \approx 12.3$$

Final Answer

12.3

MCQ 79

Round 9.876 to the nearest tenth.

- A. 9.8 B. 10.1
C. 9.9 D. 10

Solution

$$9.876 \approx 9.9$$

Final Answer

9.9

MCQ 80

Round 15.274 to the nearest hundredth.

- A. 15.29 B. 15.27
C. 15.28 D. 15.26

Solution

$$15.274 \approx 15.27$$

Final Answer

15.27

MCQ 81

Round 3.146 to the nearest hundredth.

- A. 3.15 B. 3.16
C. 3.14 D. 3.17

Solution

$$3.146 \approx 3.15$$

Final Answer

3.15

MCQ 82

Round 0.7648 to the nearest thousandth.

- A. 0.766 B. 0.764
C. 0.767 D. 0.765

Solution

$$0.7648 \approx 0.765$$

Final Answer

0.765

MCQ 83

Round 24.995 to the nearest hundredth.

- A. 24.99 B. 25.02
C. 25 D. 25.01

Solution

$$24.995 \approx 25$$

Final Answer

25

MCQ 84

Round 999 to the nearest hundred.

- A. 1200 B. 1000
C. 1100 D. 900

Solution

$$999 \approx 1000$$

Final Answer

1000

MCQ 85

Round 1499 to the nearest thousand.

- A. 1000 B. 2000
C. 0 D. 3000

Solution

$$1499 \approx 1000$$

Final Answer

1000

MCQ 86

Round 4832 to 2 significant figures.

- A. 5280 B. 4320
C. 4900 D. 4800

Solution

$$4832 \approx 4800$$

Final Answer

4800

MCQ 87

Round 75649 to 3 significant figures.

- A. 68040 B. 75700
C. 75600 D. 83160

Solution

$$75649 \approx 75600$$

Final Answer

75600

MCQ 88

Round 0.004786 to 2 significant figures.

- A. 1.0048 B. 0.0048
C. 0.00528 D. 0.00432

Solution

$$0.004786 \approx 0.0048$$

Final Answer

0.0048

MCQ 89

Round 12.345 to 3 significant figures.

- A. 12.3 B. 13.53
C. 11.07 D. 13.3

Solution

$$12.345 \approx 12.3$$

Final Answer

12.3

MCQ 90

Round 998.7 to 2 significant figures.

- A. 1100 B. 900
C. 1200 D. 1000

Solution

$$998.7 \approx 1000$$

Final Answer

1000

MCQ 91

Round 0.07654 to 3 significant figures.

- A. 0.06885 B. 1.0765
C. 0.0765 D. 0.08415

Solution

$$0.07654 \approx 0.0765$$

Final Answer

0.0765

MCQ 92

Round 34567 to 1 significant figures.

- A. 30100 B. 30000
C. 33000 D. 27000

Solution

$$34567 \approx 30000$$

Final Answer

30000

MCQ 93

Round 6.789 to 2 significant figures.

- A. 6.8 B. 7.48
C. 6.12 D. 7.8

Solution

$$6.789 \approx 6.8$$

Final Answer

6.8

MCQ 94

Round 0.0009236 to 2 significant figures.

- A. 0.001012 B. 0.000828
C. 1.00092 D. 0.00092

Solution

$$0.0009236 \approx 0.00092$$

Final Answer

0.00092

MCQ 95

Round 15049 to 3 significant figures.

- A. 13500 B. 15100
C. 15000 D. 16500

Solution

$$15049 \approx 15000$$

Final Answer

15000

Approximation and Estimation**MCQ 96**Estimate 49×21 by rounding to convenient numbers.

- A. 2000 B. 1000
C. 1010 D. 990

Solution

$$49 \times 21 \approx 50 \times 20 = 1000$$

Final Answer

1000

MCQ 97

Estimate 198×31 by rounding to convenient numbers.

- A. 6000 B. 6010
C. 5990 D. 12000

Solution

$$198 \times 31 \approx 200 \times 30 = 6000$$

Final Answer

6000

MCQ 98

Estimate $603 - 197$ by rounding to convenient numbers.

- A. 410 B. 390
C. 800 D. 400

Solution

$$603 - 197 \approx 600 - 200 = 400$$

Final Answer

400

MCQ 99

Estimate $398 + 201$ by rounding to convenient numbers.

- A. 590 B. 1200
C. 600 D. 610

Solution

$$398 + 201 \approx 400 + 200 = 600$$

Final Answer

600

MCQ 100

Estimate $1002 \div 49$ by rounding to convenient numbers.

- A. 40 B. 20
C. 30 D. 10

Solution

$$1002 \div 49 \approx 1000 \div 50 = 20$$

Final Answer

20

RAPID REVISION GRID | SETS / VENN / ROUNDING

Only A

$$n(A \text{ only}) = n(A) - n(A \cap B)$$

Neither

$$\text{Neither} = n(U) - n(A \cup B)$$

Subset $A \subseteq B$ means every element of A belongs to B .

Significant figures Start counting from the first non-zero digit.

Fast check For a two-set Venn question, compute the intersection only once.

Exam shortcut Estimate before exact calculation to reject impossible options quickly.

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