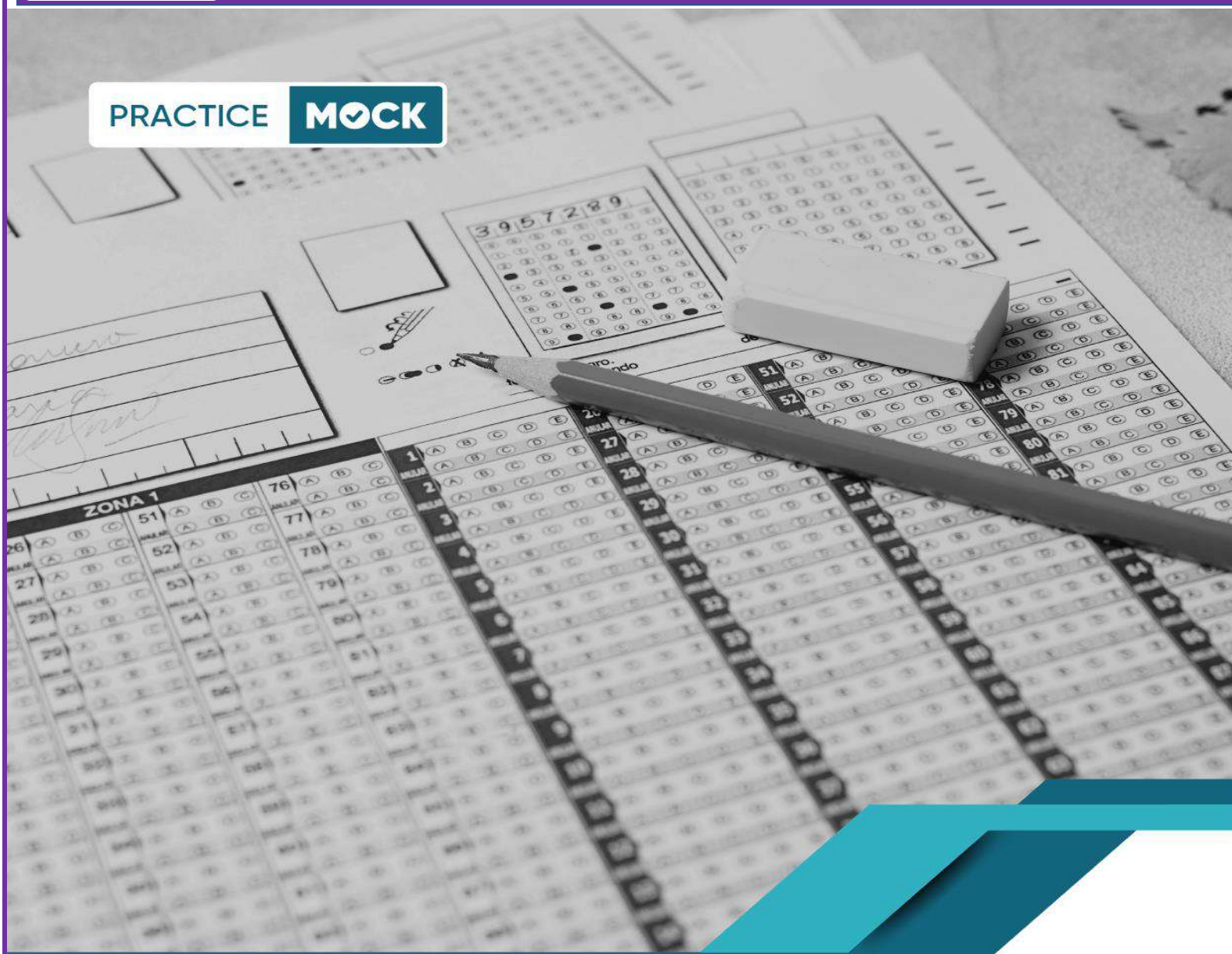


PRACTICE **MOCK**



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$$?^{1/2} = 16 \times 14 - 12 \times 18 + 352 \div 22$$

- A) 576
- B) 676
- C) 729
- D) 529
- E) None of these

Question 2: What will come in the place of question mark (?) in the given expression?

$$14\% \text{ of } ? = 9\% \text{ of } 280$$

- A) 290
- B) 180
- C) 170
- D) 120
- E) 160

Question 3: What will come in the place of question mark (?) in the given expression?

$$32^2 - 83\% \text{ of } 900 - 9 \times 11 = ?$$

- A) 146
- B) 204

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- C) 152
- D) 178
- E) None of these

Question 4: What will come in the place of question mark (?) in the given expression?

$$? = 15\% \text{ of } 64\% \text{ of } 75\% \text{ of } 6000$$

- A) 464
- B) 456
- C) 532
- D) 432
- E) 332

Question 5: What will come in the place of question mark (?) in the given expression?

$$?^2 = 8765 - 7685 + 63 \times 15$$

- A) 45
- B) 55
- C) 35
- D) 65
- E) 25

Question 6: What will come in the place of question mark (?) in the given expression?

$$360 \div 12 + 40\% \text{ of } 400 - 6 \times 5 = ?$$

- A) 150
- B) 140
- C) 160
- D) 190
- E) 180

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Question 7: What will come in the place of question mark (?) in the given expression?

$$60 \times 3 - 420 \div 21 - 100 = ?$$

- A) 70
- B) 80
- C) 60
- D) 50
- E) 40

Question 8: What will come in the place of question mark (?) in the given expression?

$$30\% \text{ of } 300 \times 2 - 80 = ?$$

- A) 100
- B) 120
- C) 80
- D) 110
- E) 60

Question 9: What will come in the place of question mark (?) in the given expression?

$$336 \div 14 - 378 \div 9 + 552 \div 12 = ?$$

- A) 25
- B) 16
- C) 28
- D) 12
- E) 26

Question 10: What will come in the place of question mark (?) in the given expression?

$$10 \times 5 + 50\% \text{ of } 200 - 12 \times 10 = ?$$

- A) 35

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B) 40

C) 30

D) 45

E) 55

Question 11: What will come in the place of question mark (?) in the given expression?

$$120 \times 2 + 3 \times 50 - 500 \div 25 = ?$$

A) 370

B) 320

C) 350

D) 400

E) 340

Question 12: What will come in the place of question mark (?) in the given expression?

$$20 \times 7 + 40 \times 4 - 42 \times 5 = ?$$

A) 120

B) 80

C) 110

D) 90

E) 140

Question 13: What will come in the place of question mark (?) in the given expression?

$$2 \times 50\% \text{ of } 70\% \text{ of } 1200 = ?$$

A) 880

B) 840

C) 480

D) 690

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E) 920

Question 14: What will come in the place of question mark (?) in the given expression?

$$(\sqrt{400}) + 145 \div 5 = ?$$

A) 55

B) 49

C) 42

D) 63

E) 72

Question 15: What will come in the place of question mark (?) in the given expression?

$$\sqrt{289} + 20\% \text{ of } 200 + 24^2 = ?$$

A) 633

B) 656

C) 602

D) 686

E) 621

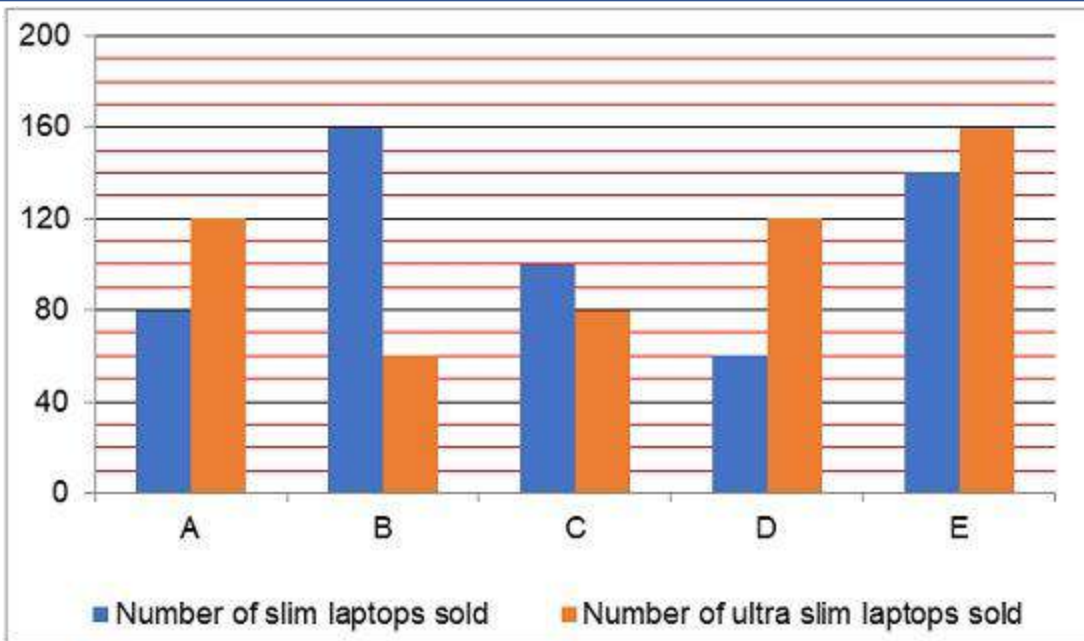
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Directions: Answer the questions based on the information given below.

Five different shopkeepers sold two types of laptops (slim + ultra-slim). The bar graph given below shows the number of slim and number of ultra-slim laptops sold by the shopkeepers.



Question 16: Ratio of number of slim laptops sold by 'B' and 'E' together to total number of laptops sold by 'D' is:

- A) 5:3
- B) 4:3
- C) 7:3
- D) 3:2
- E) None of these

Question 17: Number of ultra-slim laptops sold by 'D' and 'E' together is how much percent more/less than total number of laptops sold by 'A'.

- A) 25%
- B) 20%
- C) 40%
- D) 60%
- E) None of these

Question 18: Difference between total number of laptops sold by 'C' and 'E' is:

- A) 100

- B) 150
- C) 160
- D) 120
- E) None of these

Question 19: Average number of slim laptops sold by all the given shopkeepers except 'C' is:

- A) 100
- B) 110
- C) 120
- D) 130
- E) None of these

Question 20: If number of ultra-slim laptops sold by 'A', 'D' and 'E' are represented in a pie chart then central angle made by number of ultra-slim laptops sold by 'E' is:

- A) 144°
- B) 180°
- C) 160°
- D) 120°
- E) None of these

Question 21: Container 'A' contains 80 litres of milk and rest 'x' litres of water. 60 litres of water is added to container 'A' such that quantity of milk becomes 40% of total mixture. Find the value of 'x'.

- A) 60
- B) 80
- C) 40
- D) 50
- E) 20

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Question 22: 'A', 'B' and 'C' alone can complete a work in 20 days, 25 days and 10 days, respectively. Find the time taken by all of them together to complete 76% of the work.

- A) 5 days
- B) 2 days
- C) 6 days
- D) 4 days
- E) 3 days

Question 23: 'A' invested Rs. 1200 for 4 months, 'B' invested Rs. 1600 for 6 months and 'C' invested Rs. 2000 for 1 year in a business. The profit received by 'A' is how much percent more/less than that of 'C'?

- A) 60%
- B) 80%
- C) 40%
- D) 75%
- E) 64%

Question 24: Average runs scored by a batsman in 24 matches is 84. If he scored runs with an average of 94.5 in next six matches, then his overall average will increase/decrease by.

- A) 1.1
- B) 3.1
- C) 1.7
- D) 2.1
- E) None of these

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Question 25: The upstream speed of a boat is 6 km/hr. The total time taken by boat to cover 264 km in downstream and same distance in upstream is 56 hours. Find the speed of the boat in still water.

- A) 10 km/hr
- B) 18 km/hr
- C) 16 km/hr
- D) 12 km/hr
- E) 14 km/hr

Question 26: The ratio of the present ages of 'A' and 'B' is 7:5, respectively. 9 years hence from now, the ratio of their ages will be 5:4, respectively. Find the ratio of their ages, 3 years ago from now.

- A) 4:3
- B) 2:1
- C) 3:2
- D) 7:4
- E) 3:1

Question 27: The ratio of efficiency of A, B and C is 9:8:7, respectively. If all together can complete a piece of work in 75 days, then find the time taken by A and C together to complete 80% of the work.

- A) 100 days
- B) 90 days
- C) 105 days
- D) 95 days
- E) None of these

Question 28: A shopkeeper sold an article at 20% loss. Had he sold the article at 30% profit, he would have earned Rs. 160 more. Find the cost price of the article.

- A) Rs. 400

- B) Rs. 280
- C) Rs. 360
- D) Rs. 320
- E) Rs. 380

Question 29: Three positive numbers (A, B and C) is such that ratio of A to B is 3:2 while ratio of A to C is 4:3. If sum of squares of A, B and C is 289 then find the sum of A, B and C.

- A) 19
- B) 23
- C) 25
- D) 28
- E) None of these

Question 30: 20% of a number 'x' is 23 less than 80% of 65. Find 80% of 'x'.

- A) 96
- B) 116
- C) 124
- D) 84
- E) 104

Question 31: What will come in place of the question mark (?) in the following series?

14, 14, 28, 84, 336, ?

- A) 1620
- B) 1660
- C) 1640
- D) 1680
- E) 1600

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Question 32: What will come in place of the question mark (?) in the following series?

11, 22, ?, 52, 71, 94

- A) 44
- B) 48
- C) 36
- D) 32
- E) 35

Question 33: What will come in place of the question mark (?) in the following series?

?, 13, 17, 26, 42, 67

- A) 9
- B) 11
- C) 10
- D) 12
- E) 8

Question 34: What will come in place of the question mark (?) in the following series?

128, 136, 148, 164, ?, 208

- A) 184
- B) 174
- C) 172
- D) 182
- E) 188

Question 35: What will come in place of the question mark (?) in the following series?

12, 18, 30, 36, 48, ?

- A) 60

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- B) 54
- C) 52
- D) 64
- E) 96

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Directions: Answer the questions based on the information given below.

The given table shows the number of colleges built in five different countries in four different years.

	2010	2011	2012	2013
A	120	150	140	110
B	80	90	100	80
C	240	50	320	75
D	150	180	210	200
E	160	100	160	240

Question 36: In country 'A' each year 40% of colleges were built by government and rest by private trusts. Find the number of colleges built by private trusts in country 'A' in given four years together.

- A) 420
- B) 312
- C) 296
- D) 348
- E) 408

Question 37: Find the ratio of the number of colleges built in countries 'C' and 'E' together in 2010 and number of colleges built in countries 'D' and 'E' together in 2011.

- A) 3:1
- B) 9:4

- C) 12:5
- D) 10:7
- E) None of these

Question 38: In each college built in 2012 in country 'B', 250 girls took admission which is 25% more than number of boys who took admission. Find the total number of boys who took admission in colleges built in 2012 in country 'B'.

- A) 16000
- B) 18000
- C) 20000
- D) 25000
- E) 17500

Question 39: Find the difference between total number of colleges built in 2010 and 2013 in all the five countries together.

- A) 45
- B) 80
- C) 54
- D) 65
- E) 30

Question 40: The number of colleges built in countries 'A', 'C' and 'E' together in 2012 is how much percent more/less than the number of colleges built in countries 'A' and 'C' together in 2011.

- A) 150%
- B) 250%
- C) 240%
- D) 180%
- E) 210%

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प्रश्न 1: दिए गये समीकरण में प्रश्न चिन्ह (?) के स्थान पर क्या आएगा?

$$?^{1/2} = 16 \times 14 - 12 \times 18 + 352 \div 22$$

- A) 576
- B) 676
- C) 729
- D) 529
- E) इनमें से कोई नहीं

प्रश्न 2: दिए गये समीकरण में प्रश्न चिन्ह (?) के स्थान पर क्या आएगा?

$$14\% \text{ of } ? = 9\% \text{ of } 280$$

- A) 290
- B) 180
- C) 170
- D) 120
- E) 160

प्रश्न 3: दिए गये समीकरण में प्रश्न चिन्ह (?) के स्थान पर क्या आएगा?

$$32^2 - 83\% \text{ of } 900 - 9 \times 11 = ?$$

- A) 146
- B) 204
- C) 152
- D) 178
- E) इनमें से कोई नहीं

प्रश्न 4: दिए गये समीकरण में प्रश्न चिन्ह (?) के स्थान पर क्या आएगा?

$$? = 15\% \text{ of } 64\% \text{ of } 75\% \text{ of } 6000$$

- A) 464
- B) 456
- C) 532
- D) 432
- E) 332

प्रश्न 5: दिए गये समीकरण में प्रश्न चिन्ह (?) के स्थान पर क्या आएगा?

$$?^2 = 8765 - 7685 + 63 \times 15$$

- A) 45
- B) 55
- C) 35
- D) 65
- E) 25

प्रश्न 6: दिए गये समीकरण में प्रश्न चिन्ह (?) पर क्या आएगा?

$$360 \div 12 + 40\% \text{ of } 400 - 6 \times 5 = ?$$

- A) 150
- B) 140
- C) 160
- D) 190
- E) 180

प्रश्न 7: दिए गये समीकरण में प्रश्न चिन्ह (?) पर क्या आएगा?

$$60 \times 3 - 420 \div 21 - 100 = ?$$

- A) 70
- B) 80

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C) 60

D) 50

E) 40

प्रश्न 8: दिए गये समीकरण में प्रश्न चिन्ह (?) पर क्या आएगा?

$$30\% \text{ of } 300 \times 2 - 80 = ?$$

A) 100

B) 120

C) 80

D) 110

E) 60

प्रश्न 9: दिए गये समीकरण में प्रश्न चिन्ह (?) पर क्या आएगा?

$$336 \div 14 - 378 \div 9 + 552 \div 12 = ?$$

A) 25

B) 16

C) 28

D) 12

E) 26

प्रश्न 10: दिए गये समीकरण में प्रश्न चिन्ह (?) पर क्या आएगा?

$$10 \times 5 + 50\% \text{ of } 200 - 12 \times 10 = ?$$

A) 35

B) 40

C) 30

D) 45

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E) 55

प्रश्न 11: दिए गये समीकरण में प्रश्न चिन्ह (?) पर क्या आएगा?

$$120 \times 2 + 3 \times 50 - 500 \div 25 = ?$$

A) 370

B) 320

C) 350

D) 400

E) 340

प्रश्न 12: दिए गये समीकरण में प्रश्न चिन्ह (?) पर क्या आएगा?

$$20 \times 7 + 40 \times 4 - 42 \times 5 = ?$$

A) 120

B) 80

C) 110

D) 90

E) 140

प्रश्न 13: दिए गये समीकरण में प्रश्न चिन्ह (?) पर क्या आएगा?

$$2 \times 50\% \text{ of } 70\% \text{ of } 1200 = ?$$

A) 880

B) 840

C) 480

D) 690

E) 920

प्रश्न 14: दिए गये समीकरण में प्रश्न चिन्ह (?) पर क्या आएगा?

$$(\sqrt{400}) + 145 \div 5 = ?$$

- A) 55
- B) 49
- C) 42
- D) 63
- E) 72

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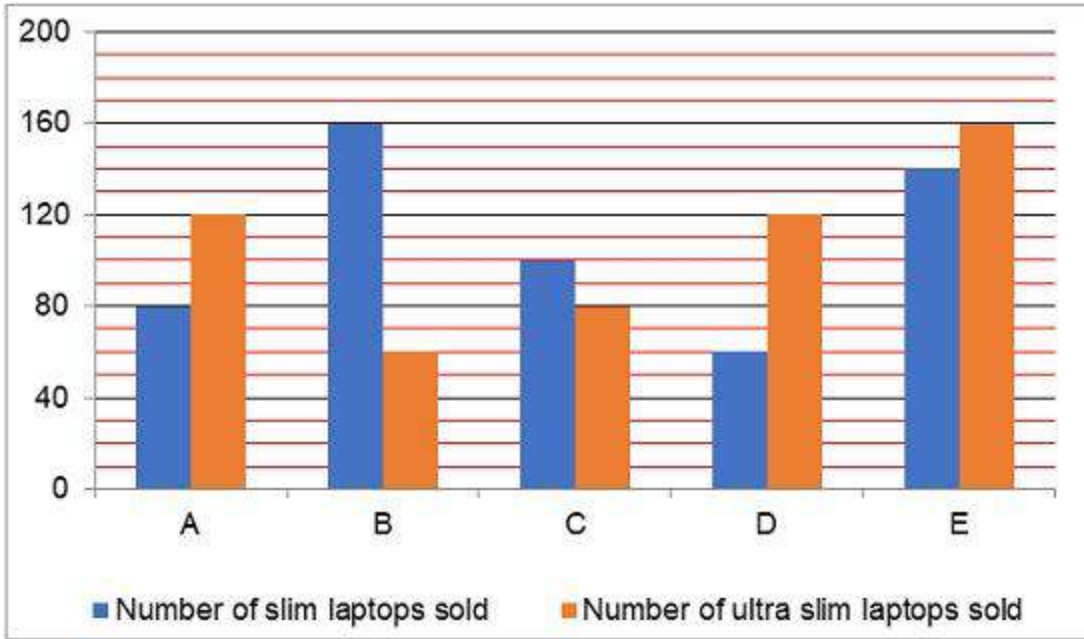
प्रश्न 15: दिए गये समीकरण में प्रश्न चिन्ह (?) पर क्या आएगा?

$$\sqrt{289} + 20\% \text{ of } 200 + 24^2 = ?$$

- A) 633
- B) 656
- C) 602
- D) 686
- E) 621

निर्देश: नीचे दी गई जानकारी के आधार पर प्रश्नों के उत्तर दें।

पांच अलग-अलग दुकानदारों ने दो प्रकार के laptops (slim + ultra-slim) बेचे। नीचे दिए गए bar graph में दुकानदारों द्वारा बेचे गए slim और ultra-slim laptops की संख्या को दिखाया गया है।



प्रश्न 16: 'B' और 'E' द्वारा बेचे गये slim laptops की संख्या और 'D' द्वारा बेचे गये laptops की कुल संख्या का अनुपात है:

- A) 5:3
- B) 4:3
- C) 7:3
- D) 3:2
- E) इनमें से कोई नहीं

प्रश्न 17: 'D' और 'E' द्वारा बेचे गये ultra-slim laptops की संख्या 'A' द्वारा बेचे गये laptops की कुल संख्या से कितने प्रतिशत अधिक / कम है।

- A) 25%
- B) 20%
- C) 40%
- D) 60%
- E) इनमें से कोई नहीं

प्रश्न 18: 'C' और 'E' द्वारा बेचे गये laptops की कुल संख्या के बीच का अंतर है:

- A) 100
- B) 150
- C) 160
- D) 120
- E) इनमें से कोई नहीं

प्रश्न 19: 'C' को छोड़कर दिए गए सभी दुकानदारों द्वारा बेचे गये slim laptops की औसत संख्या है:

- A) 100
- B) 110
- C) 120
- D) 130
- E) इनमें से कोई नहीं

प्रश्न 20: यदि 'A', 'D' और 'E' द्वारा बेचे गये ultra-slim laptops की संख्या को एक pie chart में दर्शाया गया है, तो 'E' द्वारा बेचे गये ultra-slim laptops की संख्या से बना केंद्रीय कोण है:

- A) 144°
- B) 180°
- C) 160°
- D) 120°
- E) इनमें से कोई नहीं

प्रश्न 21: कंटेनर 'A' में 80 litres दूध और शेष 'x' litres पानी होता है। कंटेनर 'A' में 60 litres पानी डाला जाता है, जिससे दूध की मात्रा कुल मिश्रण का 40% हो जाता है। 'x' का मान ज्ञात करें?

- A) 60
- B) 80
- C) 40
- D) 50

E) 20

प्रश्न 22: 'A', 'B' और 'C' अकेले क्रमशः 20 दिनों, 25 दिनों और 10 दिनों में एक काम पूरा कर सकते हैं। 76% काम को पूरा करने के लिए उन सभी द्वारा लिया गया कुल समय ज्ञात करें?

A) 5 days

B) 2 days

C) 6 days

D) 4 days

E) 3 days

प्रश्न 23: एक व्यवसाय में 'A' ने 4 महीने के लिए Rs. 1200 का निवेश किया, 'B' ने 6 महीने के लिए Rs. 1600 का निवेश किया और 'C' ने 1 वर्ष के लिए Rs. 2000 का निवेश किया। 'A' द्वारा प्राप्त लाभ 'C' की तुलना में कितना प्रतिशत अधिक / कम है?

A) 60%

B) 80%

C) 40%

D) 75%

E) 64%

प्रश्न 24: 24 मैचों में एक बल्लेबाज द्वारा बनाए गए औसत रन 84 हैं। यदि उसने अगले छह मैचों में 94.5 के औसत के साथ रन बनाए, तो उसका कुल औसत कितने से बढ़ेगा / घटेगा?

A) 1.1

B) 3.1

C) 1.7

D) 2.1

E) इनमें से कोई नहीं

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प्रश्न 25: धारा विरुद्ध में एक नाव की गति 6 km/hr है। धारा अनुप्रवाह में 264 km और धारा विरुद्ध में समान दूरी को तय करने में नाव द्वारा लिया गया कुल समय 56 hours है। शांत जल में नाव की गति ज्ञात करें?

- A) 10 km/hr
- B) 18 km/hr
- C) 16 km/hr
- D) 12 km/hr
- E) 14 km/hr

प्रश्न 26: 'A' और 'B' की वर्तमान आयु का अनुपात क्रमशः 7: 5 है। अब से 9 वर्ष बाद, उनकी आयु का अनुपात क्रमशः 5:4 होगा। अब से 3 वर्ष पहले, उनकी आयु का अनुपात कितना होगा?

- A) 4:3
- B) 2:1
- C) 3:2
- D) 7:4
- E) 3:1

प्रश्न 27: A, B और C की दक्षता का अनुपात क्रमशः 9: 8: 7 है। यदि सभी मिलकर 75 दिनों में एक काम पूरा कर सकते हैं, तो 80% काम पूरा करने के लिए A और C द्वारा साथ में लिया गया समय ज्ञात करें?

- A) 100 days
- B) 90 days
- C) 105 days
- D) 95 days
- E) इनमें से कोई नहीं

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प्रश्न 28: एक दुकानदार ने 20% हानि पर एक वस्तु को बेचा। यदि उसने वस्तु को 30% लाभ पर बेचा होता, तो वह Rs. 160 अधिक अर्जित करता। वस्तु का क्रय मूल्य ज्ञात करें?

- A) Rs. 400
- B) Rs. 280
- C) Rs. 360
- D) Rs. 320
- E) Rs. 380

प्रश्न 29: तीन धनात्मक संख्याएँ (A, B और C) हैं जिसमें A और B का अनुपात 3: 2 है जबकि A और C का अनुपात 4: 3 है। यदि A, B और C के वर्गों का योग 289 है तो A, B और C का योग ज्ञात करें?

- A) 19
- B) 23
- C) 25
- D) 28
- E) इनमें से कोई नहीं

प्रश्न 30: एक संख्या 'x' का 20%, संख्या 65 के 80% से 23 कम है | 'x' का 80% ज्ञात करें?

- A) 96
- B) 116
- C) 124
- D) 84
- E) 104

प्रश्न 31: निम्नलिखित श्रृंखला में प्रश्न चिह्न (?) के स्थान पर क्या आएगा?

14, 14, 28, 84, 336, ?

- A) 1620
- B) 1660

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C) 1640

D) 1680

E) 1600

प्रश्न 32: निम्नलिखित श्रृंखला में प्रश्न चिह्न (?) के स्थान पर क्या आएगा?

11, 22, ?, 52, 71, 94

A) 44

B) 48

C) 36

D) 32

E) 35

प्रश्न 33: निम्नलिखित श्रृंखला में प्रश्न चिह्न (?) के स्थान पर क्या आएगा?

?, 13, 17, 26, 42, 67

A) 9

B) 11

C) 10

D) 12

E) 8

प्रश्न 34: निम्नलिखित श्रृंखला में प्रश्न चिह्न (?) के स्थान पर क्या आएगा?

128, 136, 148, 164, ?, 208

A) 184

B) 174

C) 172

D) 182

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E) 188

प्रश्न 35: निम्नलिखित श्रृंखला में प्रश्न चिह्न (?) के स्थान पर क्या आएगा?

12, 18, 30, 36, 48, ?

A) 60

B) 54

C) 52

D) 64

E) 96

निर्देश: नीचे दी गई जानकारी के आधार पर प्रश्नों के उत्तर दें।

दी गई तालिका पांच अलग-अलग देश में चार अलग-अलग वर्षों में निर्मित colleges की संख्या दर्शाती है।

	2010	2011	2012	2013
A	120	150	140	110
B	80	90	100	80
C	240	50	320	75
D	150	180	210	200
E	160	100	160	240

प्रश्न 36: देश 'A' में प्रत्येक वर्ष 40% colleges सरकार द्वारा निर्मित होते हैं और शेष private trusts द्वारा निर्मित होते हैं। दिए गए चार वर्षों में देश 'A' में private trusts द्वारा निर्मित colleges की संख्या ज्ञात करें?

A) 420

B) 312

C) 296

D) 348

E) 408

प्रश्न 37: 2010 में देश 'C' और 'E' में निर्मित colleges की संख्या और 2011 में देश 'D' और 'E' में निर्मित colleges की संख्या का अनुपात ज्ञात करें?

- A) 3:1
- B) 9:4
- C) 12:5
- D) 10:7
- E) इनमें से कोई नहीं

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प्रश्न 38: 2012 में देश 'B' में निर्मित प्रत्येक college में, 250 लड़कियों ने दाखिला लिया, जो दाखिला लेने वाले लड़कों की संख्या से 25% अधिक है। 2012 में देश 'B' में निर्मित colleges में प्रवेश लेने वाले लड़कों की कुल संख्या ज्ञात करें?

- A) 16000
- B) 18000
- C) 20000
- D) 25000
- E) 17500

प्रश्न 39: सभी पाँचों देश में 2010 और 2013 में निर्मित colleges की कुल संख्या के बीच का अंतर ज्ञात करें?

- A) 45
- B) 80
- C) 54
- D) 65
- E) 30

प्रश्न 40: 2012 में देश 'A', 'C' और 'E' द्वारा निर्मित colleges की संख्या 2011 में देश 'A' और 'C' में निर्मित colleges की संख्या से कितने प्रतिशत अधिक / कम है?

- A) 150%

- B) 250%
- C) 240%
- D) 180%
- E) 210%

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ANSWER KEYS and SOLUTIONS:

1) - A)	2) - B)	3) - D)	4) - D)	5) - A)	6) - C)
7) - C)	8) - A)	9) - C)	10) - C)	11) - A)	12) - D)
13) - B)	14) - B)	15) - A)	16) - A)	17) - C)	18) - D)
19) - B)	20) - A)	21) - A)	22) - D)	23) - B)	24) - D)
25) - E)	26) - C)	27) - B)	28) - D)	29) - E)	30) - B)
31) - D)	32) - E)	33) - D)	34) - A)	35) - B)	36) - B)
37) - D)	38) - C)	39) - A)	40) - E)		

Solution 1: A)

$$?^{1/2} = 16 \times 14 - 12 \times 18 + 352 \div 22$$

$$?^{1/2} = 224 - 216 + 16$$

$$?^{1/2} = 8 + 16$$

$$?^{1/2} = 24$$

$$? = 576$$

Hence, option a.

Solution 2: B)

$$14\% \text{ of } ? = 9\% \text{ of } 280$$

$$0.14 \times ? = 0.09 \times 280$$

$$? = 180$$

Hence, option b.

Solution 3: D)

$$32^2 - 83\% \text{ of } 900 - 9 \times 11 = ?$$

$$1024 - 747 - 99 = ?$$

$$? = 178$$

Hence, option d.

Solution 4: D)

$$? = 15\% \text{ of } 64\% \text{ of } 75\% \text{ of } 6000$$

$$? = 0.15 \times 0.64 \times 0.75 \times 6000$$

$$? = 432$$

Hence, option d.

Solution 5: A)

$$?^2 = 8765 - 7685 + 63 \times 15$$

$$?^2 = 1080 + 945$$

$$?^2 = 2025$$

$$? = 45$$

Hence, option a.

Solution 6: C)

$$360 \div 12 + 40\% \text{ of } 400 - 6 \times 5 = ?$$

$$30 + 160 - 30 = ?$$

$$160 = ?$$

Hence, option c.

Solution 7: C)

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$$60 \times 3 - 420 \div 21 - 100 = ?$$

$$180 - 20 - 100 = ?$$

$$60 = ?$$

Hence, option c.

Solution 8: A)

$$30\% \text{ of } 300 \times 2 - 80 = ?$$

$$90 \times 2 - 80 = ?$$

$$180 - 80 = 100$$

Hence, option a.

Solution 9: C)

$$336 \div 14 - 378 \div 9 + 552 \div 12 = ?$$

$$24 - 42 + 46 = ?$$

$$28 = ?$$

Hence, option c.

Solution 10: C)

$$10 \times 5 + 50\% \text{ of } 200 - 12 \times 10 = ?$$

$$50 + 100 - 120 = ?$$

$$30 = ?$$

Hence, option c.

Solution 11: A)

$$120 \times 2 + 3 \times 50 - 500 \div 25 = ?$$

$$240 + 150 - 20 = ?$$

$$370 = ?$$

Hence, option a.

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Solution 12: D)

$$20 \times 7 + 40 \times 4 - 42 \times 5 = ?$$

$$140 + 160 - 210 = ?$$

$$90 = ?$$

Hence, option d.

Solution 13: B)

$$2 \times 50\% \text{ of } 70\% \text{ of } 1200 = ?$$

$$2 \times 50\% \text{ of } 840 = ?$$

$$2 \times 420 = ?$$

$$840 = ?$$

Hence, option b.

Solution 14: B)

$$(\sqrt{400}) + 145 \div 5 = ?$$

$$20 + 29 = ?$$

$$49 = ?$$

Hence, option b.

Solution 15: A)

$$\sqrt{289} + 20\% \text{ of } 200 + 24^2 = ?$$

$$17 + 40 + 576 = ?$$

$$633 = ?$$

Hence, option a.

Solution 16: A)

Shopkeepers	Number of slim laptops sold	Number of ultra-slim laptops sold	Total number of laptops sold
-------------	-----------------------------	-----------------------------------	------------------------------

A	80	120	$80 + 120 = 200$
B	160	60	$160 + 60 = 220$
C	100	80	$100 + 80 = 180$
D	60	120	$60 + 120 = 180$
E	140	160	$140 + 160 = 300$

Desired ratio = $(160 + 140):180 = 300:180 = 5:3$

Hence, option a.

Solution 17: C)

Number of ultra-slim laptops sold by 'D' and 'E' together = $120 + 160 = 280$

Desired Percentage = $[(280 - 200)/200] \times 100 = 40\%$

Hence, option c.

Solution 18: D)

Desired difference = $300 - 180 = 120$

Hence, option d.

Solution 19: B)

Desired average = $(80 + 160 + 60 + 140)/4 = 110$

Hence, option b.

Solution 20: A)

Number of ultra-slim laptops sold by 'A', 'D' and 'E' together = $120 + 120 + 160 = 400$

Desired central angle = $(160/400) \times 360 = 144^\circ$

Hence, option a.

Solution 21: A)

According to the question,

$$0.4(80 + x + 60) = 80$$

$$\text{Or, } x = 200 - 140$$

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Or, $x = 60$

Hence, option a.

Solution 22: D)

Let the total work = 100 units

Efficiency of 'A' = $100/20 = 5$ units/day

Efficiency of 'B' = $100/25 = 4$ units/day

Efficiency of 'C' = $100/10 = 10$ units/day

Required time taken = $76/(5 + 4 + 10) = 4$ days

Hence, option d.

Solution 23: B)

Ratio of the profits received by 'A', 'B' and 'C' = $(1200 \times 4):(1600 \times 6):(2000 \times 12) = 1:2:5$

Required percentage = $\{(5 - 1)/5\} \times 100 = 80\%$

Hence, option b.

Solution 24: D)

Total runs scored by batsman = $24 \times 84 = 2016$

New average = $\{2016 + 94.5 \times 6\}/\{24 + 6\} = 2583/30 = 86.1$

Desired difference = $86.1 - 84 = 2.1$

Hence, option d.

Solution 25: E)

Let the speed of the boat in still water be 'x' km/hr

Therefore, speed of current = $(x - 6)$ km/hr

According to the question,

$$\{264/(2x - 6)\} + 264/6 = 56$$

Or, $2x - 6 = 264/12$

Or, $x = 14$

Hence, option e.

Solution 26: C)

Let the present ages of 'A' and 'B' be $7x$ years and $5x$ years, respectively

According to the question,

$$(7x + 9)/(5x + 9) = 5/4$$

$$\text{Or, } 28x + 36 = 25x + 45$$

$$\text{Or, } 3x = 9$$

$$\text{Or, } x = 3$$

$$\text{Required ratio} = (7x - 3)/(5x - 3) = 3:2$$

Hence, option c.

Solution 27: B)

Let efficiency of A, B and C be $9x$ units/day, $8x$ units/day and $7x$ units/day, respectively.

$$\text{Total work} = 24x \times 75 \text{ units}$$

$$\text{Desired time} = (0.80 \times 24x \times 75)/16x = 90 \text{ days}$$

Hence, option b.

Solution 28: D)

Let, cost price be Rs. ' x '

$$\text{Selling price at 20\% loss} = 80\% \text{ of } x = \text{Rs. } 0.8x$$

$$\text{Selling price at 30\% profit} = 130\% \text{ of } x = \text{Rs. } 1.3x$$

$$1.3x - 0.8x = 160$$

$$0.5x = 160$$

$$x = 320$$

Cost price of article = Rs. 320

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Hence, option d.

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Solution 29: E)

Let A, B and C be $12x$, $8x$ and $9x$ respectively.

According to question;

$$144x^2 + 64x^2 + 81x^2 = 289$$

$$\text{So, } 289x^2 = 289$$

$$\text{So, } x = 1$$

$$\text{Desired answer} = 12 + 8 + 9 = 29$$

Hence, option e.

Solution 30: B)

According to the question,

$$0.2x = 0.8 \times 65 - 23$$

$$\text{Or, } x = 29/0.2 = 145$$

$$\text{Required value} = 0.8x = 116$$

Hence, option b.

Solution 31: D)

$$14 \times 1 = 14$$

$$14 \times 2 = 28$$

$$28 \times 3 = 84$$

$$84 \times 4 = 336$$

$$336 \times 5 = 1680$$

Hence, option d.

Solution 32: E)

The following number series follows addition of prime numbers starting from 11.

$$11 + 11 = 22$$

$$22 + 13 = 35$$

$$35 + 17 = 52$$

$$52 + 19 = 71$$

$$71 + 23 = 94$$

Hence, option e.

Solution 33: D)

$$12 + 1^2 = 13$$

$$13 + 2^2 = 17$$

$$17 + 3^2 = 26$$

$$26 + 4^2 = 42$$

$$42 + 5^2 = 67$$

Hence, option d.

Solution 34: A)

$$124 + 4 \times 1 = 128$$

$$128 + 4 \times 2 = 136$$

$$136 + 4 \times 3 = 148$$

$$148 + 4 \times 4 = 164$$

$$164 + 4 \times 5 = 184$$

$$184 + 4 \times 6 = 208$$

Hence, option a.

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Solution 35: B)

$$12 + 6 = 18$$

$$18 + 12 = 30$$

$$30 + 6 = 36$$

$$36 + 12 = 48$$

$$48 + 6 = 54$$

Hence, option b.

Solution 36: B)

$$\text{Required number of colleges} = 0.6 \times (120 + 150 + 140 + 110) = 312$$

Hence, option b.

Solution 37: D)

$$\text{Required ratio} = (240 + 160):(180 + 100) = 10:7$$

Hence, option d.

Solution 38: C)

$$\text{Required number of boys} = 100 \times (250/1.25) = 20000$$

Hence, option c.

Solution 39: A)

$$\text{Number of colleges built in 2010} = (120 + 80 + 240 + 150 + 160) = 750$$

$$\text{Number of colleges built in 2013} = (110 + 80 + 75 + 200 + 240) = 705$$

$$\text{Required difference} = 750 - 705 = 45$$

Hence, option a.

Solution 40: E)

$$\text{Number of colleges built in countries 'A', 'C' and 'E' together in 2012} = (140 + 320 + 160) = 620$$

$$\text{Number of colleges built in countries 'A' and 'C' together in 2011} = (150 + 50) = 200$$

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Required percentage = $\{(620 - 200)/200\} \times 100 = 210\%$

Hence, option e.

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IBPS RRB Clerk Previous Year Questions – Quantitative Aptitude

Directions (1–5): Answer the questions based on the information given below.

Eight persons A, B, G, H, N, R, T and U are living in a building having four floors where ground floor is numbered as 1, the floor above it is numbered as 2 and so on till the topmost floor which is numbered as 4. Each floor is having two types of flats i.e. Flat – Y and Flat – Z such that flat – Y of floor – 2 is exactly above the flat – Y of floor – 1 and exactly below the flat – Y of floor – 3 and so on. Similarly, flat – Z of floor – 2 is exactly above the flat – Z of floor – 1 and exactly below the flat – Z of floor – 3 and so on. Also, Flat – Z is to the east of Flat – Y.

Note: If two flats are adjacent to each other then it means that either those two flats are on the same floor or both the flats are of same type on adjacent floors.

There is one floor between B's and H's floor. G lives just below R's flat such that both live in the same type of flat. T and U live in the same type of flat such that T lives just above U's floor and lives immediate west of B. N does not live in flat which is adjacent to T's flat. H lives on a floor above B. B and H live in different types of flats.

Common Solution:

Starting Point: There is one floor between B's and H's floor.

Clues: G lives just below R's flat such that both live in the same type of flat. T and U live in the same type of flat such that T lives just above U's floor and lives immediate west of B. N does not live in flat which is adjacent to T's flat. H lives on a floor above B.

Inference: So, B must live in flat – Z of floor – 2 as T lives immediate west of B and T lives above the floor on which U lives, which means H lives on topmost floor in flat – Y. Now, R and G lives in same flat and G live below R which means G must live on floor – 3 in flat – Z and R lives on 4th floor in flat – Z.

Now, N and T do not live in same flat which means N must live on ground floor in flat –Z so, U must live on ground floor in flat – Y.

The final arrangement is as follows:

Floors	Flat - Y	Flat - Z
4	H	R
3	A	G
2	T	B
1	U	N

Question 1: Who lives in Flat - Z of floor - 2?

- A) H
- B) G
- C) N
- D) B
- E) None of the above

Answer: D)

Solution:

B lives in Flat - Z of floor - 2.

Hence, option d.

Question 2: What is the direction of A's flat with respect to N's flat?

- A) North east
- B) South west
- C) South east
- D) None of these
- E) North west

Answer: E)

Solution:

A's flat is to the north west of N's flat.

Hence, option e.

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Question 3: Who among the following lives immediately above T who lives in the same type of flat as T?

- A) B
- B) A
- C) N
- D) G
- E) R

Answer: B)

Solution:

A who lives in the same type of flat as T lives immediately above T.

Hence, option b.

Question 4: Which of the following is true regarding G?

- A) G lives in Flat - Y
- B) G lives on bottommost floor
- C) G lives on a floor above N but not immediately above.
- D) G and T live on same floor
- E) None is true

Answer: C)

Solution:

G lives on a floor above N but not lives immediately above N.

Hence, option c.

Question 5: Who lives on the same floor with A?

- A) R
- B) G
- C) B
- D) U

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E) N

Answer: B)

Solution:

G lives on the same floor with A.

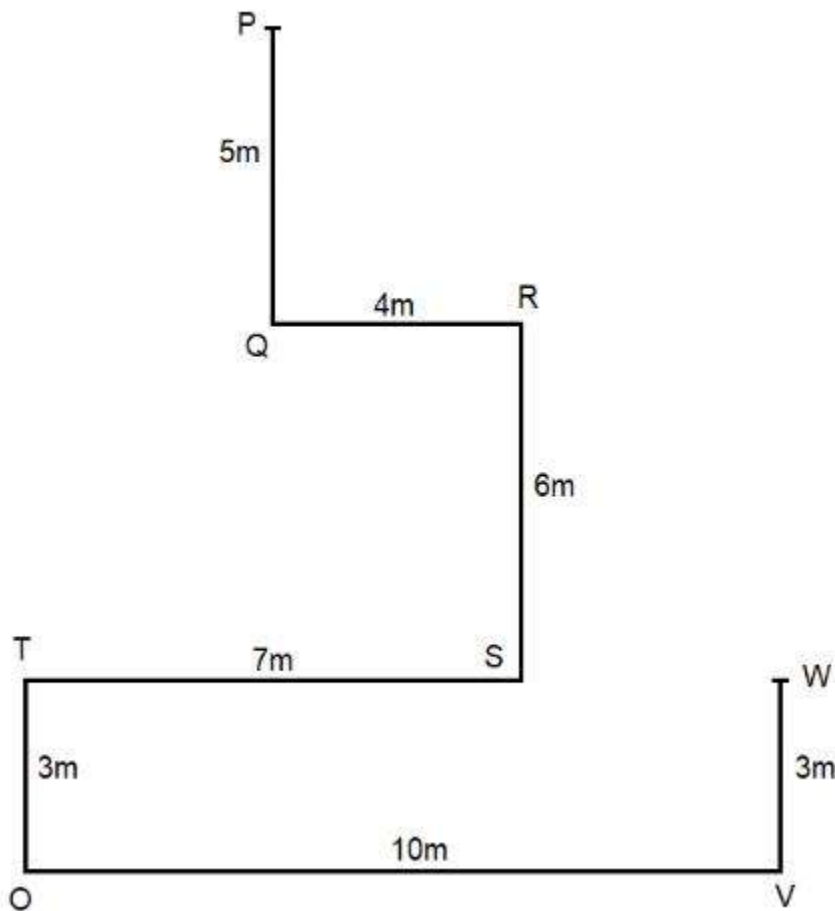
Hence, option b.

Directions (6–8): Answer the questions based on the information given below.

Harsh started walking from point P in south direction, after walking 5m he turns left from point Q and walks for 4m till point R. He then turns right and walks for 6m and then turns right from point S and walks for 7m till point T. He then turns left and walks for 3m and then turns left from point O and walks for 10m and then turns left from point V and walks for 3m till point W.

Common Solution:

Figure:



Question 6: In which direction is point T with respect to point W?

- A) South
- B) North-East
- C) West
- D) North-West
- E) North

Answer: C)

Solution:

Point T is in west of point W.

Hence, option c.

Question 7: What is the total distance covered by Harsh from point R to W?

- A) 31m
- B) 20m
- C) 34m
- D) 29m
- E) None of the above

Answer: D)

Solution:

The total distance covered by Harsh from point R to W = $6m + 7m + 3m + 10m + 3m = 29m$

Hence, option d.

Question 8: Find the odd one out.

- A) P, R
- B) T, V
- C) Q, S
- D) O, V
- E) Q, W

Answer: D)

Solution:

First point is in north-west of second point except in (O, V)

Hence, option d.

Directions (9–13): Answer the questions based on the information given below:

Nine events A, B, C, D, E, F, G, H and I are held on 2nd of different months (March, April, May, June, July, September, October, November and December) in the same year.

E is held three months after G. Three events are held after B. Two events are held between E and D.

I is held two months before D. A is not held in any month, which has 31 days. F is held after H but not in December.

Common Solution:

Starting Point: First consider the direct clues, then proceed with E and G.

Direct Clues:

1. Three events are held after B.

Clues:

2. E is held three months after G.

Inference:

From clue 1, B is held in September.

From clue 2, G is held in March, April or July. E is held in June or July or October.

	Case I	Case II	Case III
March	G		
April		G	
May			
June	E		
July		E	G
September	B	B	B
October			E

November			
December			

Clues:

- 3. Two events are held between E and D.
- 4. I is held two months before D.

Inference:

From clue 3 and clue 4, case I and case II are rejected as I can't be placed. And thus, D is held in June. I is held in April.

	Case III
March	
April	I
May	
June	D
July	G
September	B
October	E
November	
December	

Clues:

- 5. A is not held in any months, which has 31 days.
- 6. F is held after H but not in December.

Inference:

From clue 5, A is held in November.

From clue 6, F is held in May, H is held in March. And thus, C is held in December.

The final table is given below:

March	H
April	I
May	F
June	D
July	G
September	B

October	E
November	A
December	C

Question 9: ____ is held in November.

- A) D
- B) C
- C) A
- D) F
- E) None of the above

Answer: C)

Solution:

A is held in November.

Hence, option c.

Question 10: How many events are held before F?

- A) Three
- B) Five
- C) Four
- D) Two
- E) None of the above

Answer: D)

Solution:

Two events are held before F.

Hence, option d.

Question 11: ____ is held immediately after H.

- A) I
- B) F

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- C) D
- D) G
- E) None of the above

Answer: A)

Solution:

I is held immediately after H.

Hence, option a.

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Question 12: ____ events are held between A and G.

- A) Four
- B) Two
- C) Five
- D) One
- E) None of the above

Answer: B)

Solution:

Two events are held between A and G.

Hence, option b.

Question 13: Find the odd one out:

- A) E
- B) D
- C) B
- D) I

E) A

Answer: A)

Solution:

All the events except E are held in months, which has only 30 days.

Hence, option a.

Question 14: In the question, assuming the given statements to be true, find which of the following conclusion(s) among the three conclusions is/are definitely true and then give your answer accordingly.

Statements:

$A > D > I = B; C > B; I > J$

Conclusions:

I. $A > C$

II. $C > J$

III. $C < D$

A) Both conclusions II and III are true

B) Only conclusion I is true

C) Only conclusion III is true

D) Only conclusion II is true

E) Both the conclusions I and III are true

Answer: D)

Solution:

Given statements;

$A > D > I = B; C > B; I > J$

On combining, we get,

$A > D > I = B < C$ and $A > D > I > J$

Conclusions:

I. $A > C$: False ($A > D > I = B < C$, relationship between A and C can't be established)

II. $C > J$: True ($J < I = B < C$, so $C > J$)

III. $C < D$: False ($D > I = B < C$, relationship between D and C can't be established)

Hence, option d.

Question 15: In the question, assuming the given statements to be true, find which of the conclusion (s) among given three conclusions is /are definitely true and then give your answer accordingly.

Statements: $S < E \geq T \geq P$; $P = H > Y$; $X \leq V < S$

Conclusions:

I. $S > Y$

II. $E > X$

III. $T \geq Y$

A) Only conclusion II is true.

B) Only conclusions I and II are true.

C) Only conclusion III is true.

D) Both conclusions II and III are true.

E) All conclusions I, II and III are false.

Answer: A)

Solution:

Given statements: $S < E \geq T \geq P$; $P = H > Y$; $X \leq V < S$

On combining, we get

$E \geq T \geq P = H > Y$; $X \leq V < S < E$

Conclusions:

I. $S > Y$: False (As $S < E \geq T \geq P = H > Y$, the relation between S and Y cannot be determined)

II. $E > X$: True (As $E > S > V \geq X$, so $E > X$)

III. $T \geq Y$: False (As $T \geq P = H > Y$, so, $T > Y$)

Hence, option a.

Question 16: In the question, assuming the given statements to be true, find which of the conclusion (s) among given three conclusions is /are definitely true and then give your answer accordingly.

Statements: $R > P \geq Y < X$; $Y > Q > A$; $X \geq U > L$

Conclusions:

I. $R > L$

II. $P \geq A$

III. $P = U$

A) Only conclusion II is true.

B) Only conclusions I and III are true.

C) Only conclusion III is true.

D) Both conclusions II and III are true.

E) All conclusions I, II and III are false.

Answer: E)

Solution:

Given statements: $R > P \geq Y < X$; $Y > Q > A$; $X \geq U > L$

On combining, we get

$R > P \geq Y > Q > A$; $R > P \geq Y < X \geq U > L$

Conclusions:

I. $R > L$: False (As $R > P \geq Y < X \geq U > L$, the relation between R and L cannot be determined)

II. $P \geq A$: False (As $P \geq Y > Q > A$, so, $P > A$)

III. $P = U$: False (As $P \geq Y < X \geq U$, the relation between P and U cannot be determined)

Hence, option e.

Question 17: In the question, assuming the given statements to be true, find which of the conclusion (s) among given three conclusions is /are definitely true and then give your answer accordingly.

Statements: $U > T \geq I; I \geq W \geq K; S \leq K \leq C$

Conclusions:

I. $U \geq C$

II. $S \leq T$

III. $I > K$

A) Only conclusion II is true.

B) Both conclusions I and II are true.

C) Only conclusion III is true.

D) Both conclusions II and III are true.

E) All conclusions I, II and III are false.

Answer: A)

Solution:

Given statements: $U > T \geq I; I \geq W \geq K; S \leq K \leq C$

On combining, we get

$U > T \geq I \geq W \geq K \geq S; U > T \geq I \geq W \geq K \leq C$

Conclusions:

I. $U \geq C$: False (As $U > T \geq I \geq W \geq K \leq C$, the relation between U and C cannot be determined)

II. $S \leq T$: True (As $T \geq I \geq W \geq K \geq S$, so $T \geq S$)

III. $I > K$: False (As $I \geq W \geq K$, so, $I \geq K$)

Hence, option a.

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Question 18: In the question, assuming the given statements to be true, find which of the conclusion (s) among given three conclusions is /are definitely true and then give your answer accordingly.

Statements: $P < R > L$; $P \geq K > Z$; $Q < L$

Conclusions:

I. $Z < R$

II. $K < L$

III. $Q < R$

A) Only conclusion I is true

B) Only conclusions I and II are true

C) Only conclusion II is true

D) All conclusions I, II and III are false

E) Only conclusions I and III are true

Answer: E)

Solution:

Given statements: $P < R > L$; $P \geq K > Z$; $Q < L$

On combining, we get

$Z < K \leq P < R > L > Q$

Conclusions:

I. $Z < R$: True (As $Z < K \leq P < R$, so $Z < R$)

II. $K < L$: False (As $K \leq P < R > L$, relation between K and L can't be determined)

III. $Q < R$: True (As $R > L > Q$, so $Q < R$)

Only conclusions I and III are true.

Hence, option e.

Directions (19–23): Study the following arrangement of numbers, symbols and letters carefully and answer the questions:

6 X # K + 5 L 4 D > T G 7 \$ 1 A @ Q 2 E % B 3 U & 8 R * 9

Question 19: In the given arrangement, how many such letters are there which are immediately followed by a symbol and immediately preceded by a number?

- A) Two
- B) Three
- C) Five
- D) Four
- E) None of the above

Answer: E)

Solution:

6 X # K + 5 L 4 **D** > T G 7 \$ 1 **A** @ Q 2 **E** % B 3 **U** & 8 **R** * 9

There are six such letter in the given arrangement which immediately followed by a symbol and immediately preceded by a number.

Hence, option e.

Question 20: In the given arrangement, how many such numbers are there which are immediately preceded by a letter?

- A) Three
- B) Four
- C) Five
- D) Two
- E) None of these

Answer: B)

Solution:

6 X # K + 5 L 4 D > T G **7** \$ 1 A @ Q 2 E % B **3** U & 8 R * 9

In the given arrangement, there are four such numbers which are immediately preceded by a letter.

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Hence, option b.

Question 21: In the given arrangement, how many odd numbers are between "L" and "%"?

A) Four

B) Two

C) One

D) Zero

E) Three

Answer: B)

Solution:

6 X # K + 5 L 4 D > T G 7 \$ 1 A @ Q 2 E % B 3 U & 8 R * 9

In the given arrangement, there are two odd numbers between "L" and "%".

Hence, option b.

Question 22: If all the symbols and numbers are dropped from the given arrangement, which element is 7th to the left of 4th element from the right end?

A) L

B) K

C) D

D) X

E) None of the above

Answer: B)

Solution:

6 X # K + 5 L 4 D > T G 7 \$ 1 A @ Q 2 E % B 3 U & 8 R * 9

If all the symbols and numbers are dropped from the given arrangement, the arrangement obtained is:

X K L D T G A Q E B U R

The element, which is 7th to the left of 4th element from the right end is "K".

Hence, option b.

Question 23: In the given arrangement, how many symbols are there between "D" and "B"?

- A) Four
- B) Two
- C) Three
- D) One
- E) None of the above

Answer: A)

Solution:

6 X # K + 5 L 4 D > T G 7 \$ 1 A @ Q 2 E % B 3 U & 8 R * 9

In the given arrangement, there are four symbols between "D" and "B".

Hence, option a.

Directions (24–28): Answer the questions based on the information given below.

Eight persons P, Q, R, S, T, U, V and W sit around the circular table. Equal number of persons is facing towards and away from the center. Not more than two adjacent persons face in same direction. W sits opposite to T. R sits second to the left of P and both face in same direction. U and Q sit immediate left of each other. One person sits between R and S. Neither S nor R is adjacent to W. Neighbours of S face in same direction. V faces towards the centre.

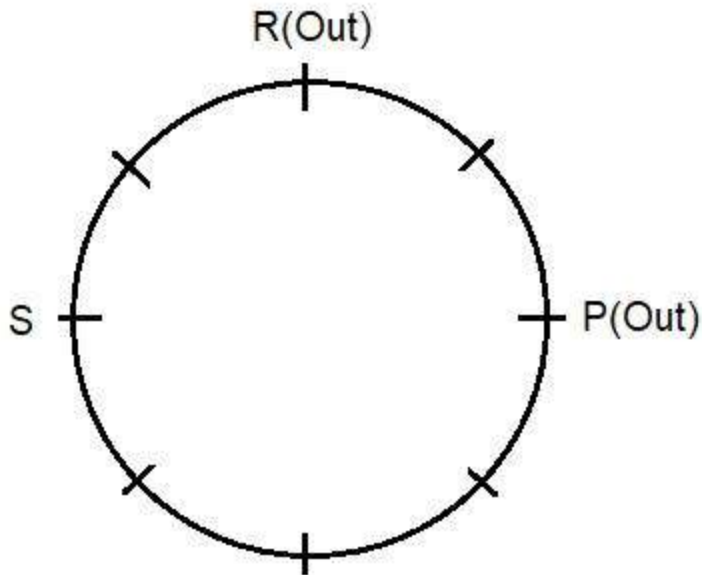
Common Solution:

Starting point: Here, two statements are associated with R. So, we start with respect to R and proceed accordingly.

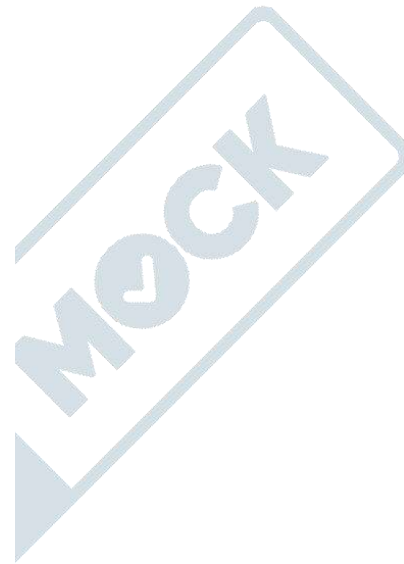
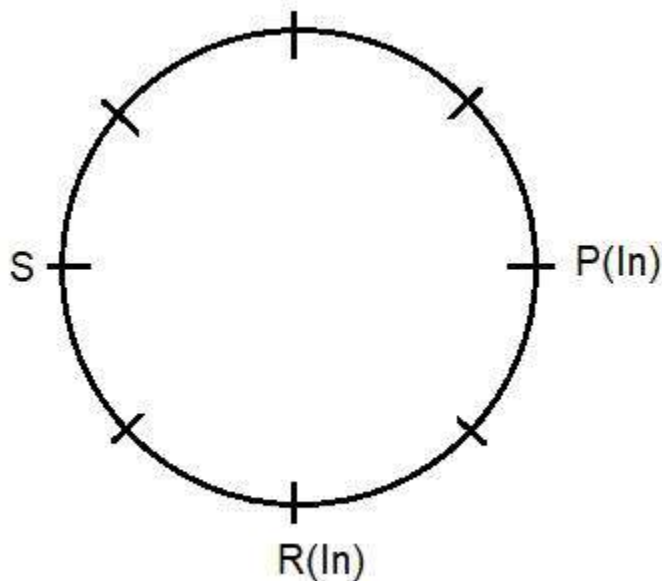
Clues: R sits second to the left of P and both face in same direction. One person sits between R and S.

Inference: So, the position of P, R and S must be fixed in two cases,

Case 1:



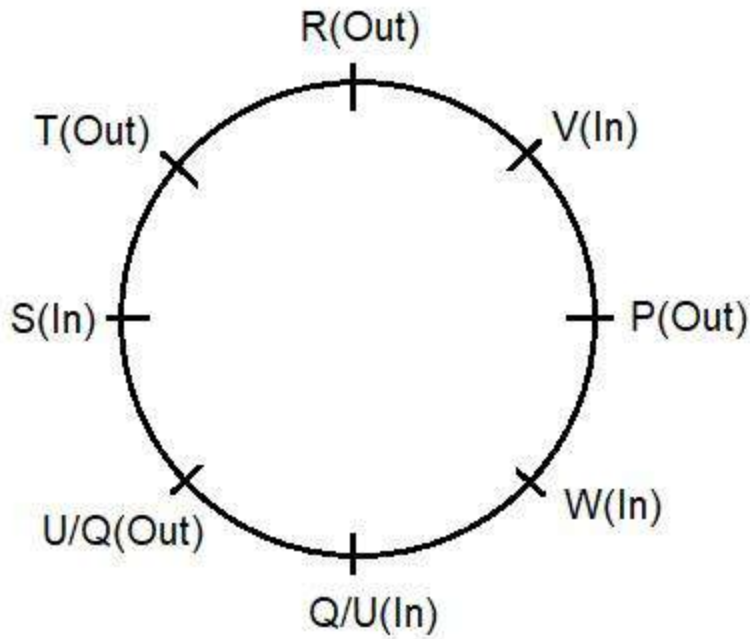
Case 2:



Clues: W sits opposite to T. Neither S nor R is adjacent to W. U and Q sit to the immediate left of each other. V faces towards the center. Neighbours of S face in same direction.

Inference: So, W must sit immediate right of P. Also, case 2 will be rejected. Also, S must face towards the center. Also, W must face towards the center.

The final arrangement is shown below:



Question 24: Who among the following sits to the immediate left of W?

- A) Q
- B) U
- C) S
- D) P
- E) Cannot be determined

Answer: E)

Solution:

Either Q or U sits immediate left of W.

Hence, option e.

Question 25: Who sits opposite to P?

- A) T
- B) S
- C) V
- D) W
- E) None of these

Answer: B)

Solution:

S sits opposite to P.

Hence, option b.

Question 26: Find the odd one out if Q faces towards the center.

A) R

B) P

C) U

D) S

E) T

Answer: D)

Solution:

All faces away from the center, except S.

Hence, option d.

Question 27: Who sits to the immediate right of V?

A) R

B) T

C) U

D) W

E) None of these

Answer: A)

Solution:

R sits immediate right of V.

Hence, option a.

Question 28: Who sits second to the left of S?

- A) T
- B) R
- C) W
- D) U
- E) Cannot be determined

Answer: B)

Solution:

R sits second to the left of S.

Hence, option b.

Question 29: In the question below there are three statements followed by two conclusions I and II. You have to take the three given statements to be true even if they seem to be at variance from commonly known facts and then decide which of the given conclusions logically follows from the three statements disregarding commonly known facts.

Statements:

No digits are numbers.

1% numbers are symbols.

Every symbols are letters.

Conclusions:

I. A few numbers are letters.

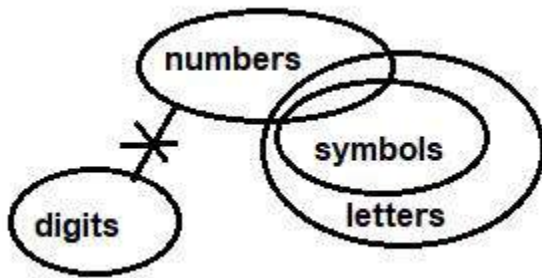
II. Mostly letters are digits.

- A) Only conclusion II follows
- B) None of these
- C) Neither conclusion I nor conclusion II follows
- D) Both conclusions I and II follow.
- E) Only conclusion I follows

Answer: E)

Solution:

Following figure can be formed:



From the figure, only conclusion I follows.

Hence, option e.

Question 30: In the question below there are three statements followed by two conclusions I and II. You have to take the three given statements to be true even if they seem to be at variance from commonly known facts and then decide which of the given conclusions logically follows from the three statements disregarding commonly known facts.

Statements:

None of the legs are hands.

Only a few hands are fingers.

99.9% fingers are ears.

Conclusions:

I. All hands being fingers is a possibility.

II. No ears are legs.

A) Only conclusion II follows

B) None of these

C) Neither conclusion I nor conclusion II follows

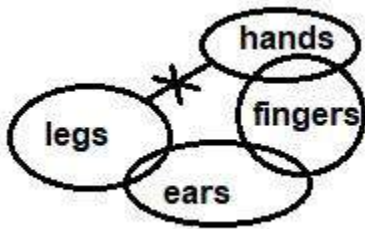
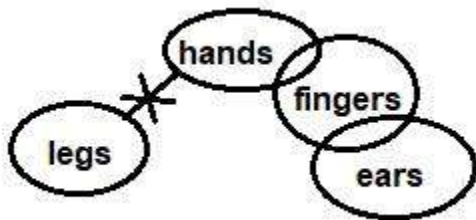
D) Both conclusions I and II follow.

E) Only conclusion I follows

Answer: C)

Solution:

Following figure can be formed:



From the figure, neither conclusion I nor conclusion II follows.

Hence, option c.

Question 31: In the question below there are three statements followed by two conclusions I and II. You have to take the three given statements to be true even if they seem to be at variance from commonly known facts and then decide which of the given conclusions logically follows from the three statements disregarding commonly known facts.

Statements:

Only books are pens.

A few pencils are books.

7% erasers are pencils.

Conclusions:

I. None of the erasers are books.

II. A few pencils being pens is a possibility.

A) Only conclusion I follows

B) Neither conclusion I nor conclusion II follows

C) None of these

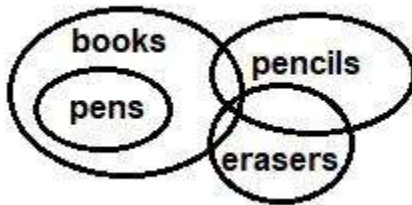
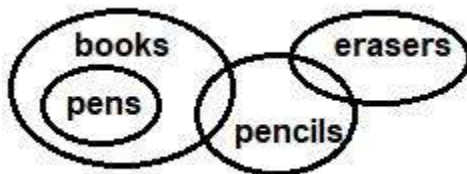
D) Only conclusion II follows

E) Both conclusions I and II follow.

Answer: B)

Solution:

Following figure can be formed:



From the figure, neither conclusion I nor conclusion II follows.

Hence, option b.

Question 32: In the question below there are three statements followed by two conclusions I and II. You have to take the three given statements to be true even if they seem to be at variance from commonly known facts and then decide which of the given conclusions logically follows from the three statements disregarding commonly known facts.

Statements:

All cities are towns.

Every towns are countries.

None of the countries are villages.

Conclusions:

I. None of the towns are villages.

II. Every cities are countries.

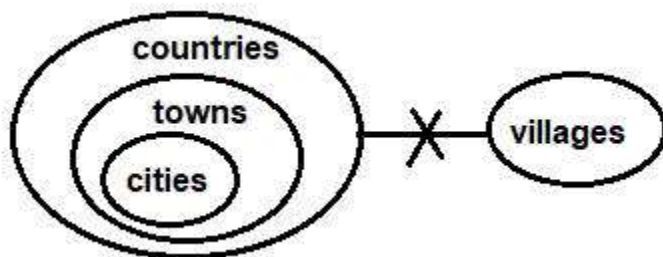
A) Only conclusion I follows

- B) None of these
- C) Neither conclusion I nor conclusion II follows
- D) Only conclusion II follows
- E) Both conclusions I and II follow.

Answer: E)

Solution:

Following figure can be formed:



From the figure, both conclusion I and conclusion II follow.

Hence, option e.

Question 33: In the question below some statements are given followed by two conclusions I, and II. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusion definitely follows from the given statements, disregarding commonly known facts.

Statements:

60% Tear are Water

All Water are Liquid

All Liquid are Ice

Conclusions:

- I. Some Ice are Water is a possibility
- II. At least Some Liquid are Tear

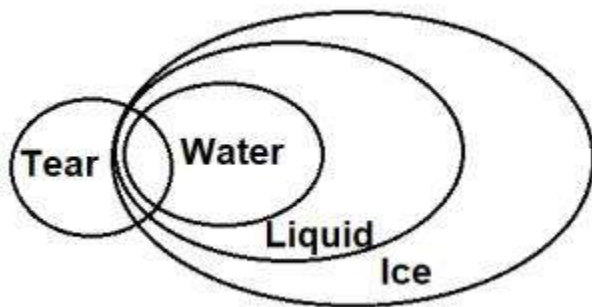
- A) Only Conclusion I follows
- B) Only Conclusion II follows

- C) Either Conclusion I or II follows
 D) Both Conclusion I and II follows
 E) Neither Conclusion I nor II follows

Answer: B)

Solution:

We draw the following figure:



From the figure we get Only Conclusion II follows.

Hence, option b.

Directions (34–38): Answer the questions based on the information given below:

A certain number of persons sit in a straight row facing north. Three persons sit to the left of A.

One person sits between A and B. C sits 3rd to the right of B. Number of persons to the left of C is equal to the number of persons to the right of D. Number of persons to the left of B is one more than the number of persons between C and D. E sits to the immediate right of D. More than three persons sit to the right of E.

Common Solution:

As three persons sit to the left of A.

One person sits between A and B.

C sits 3rd to the right of B, so

Case I:

— B — A C — — —

Case II:

Question 35: If 7 persons sit between E and F then what is the position of F with respect to B?

- A) 2nd to the right
- B) Immediate right
- C) 3rd to the left
- D) Immediate left
- E) None of these

Answer: B)

Solution:

If 7 persons sit between E and F, F sits to the immediate right of B.

Hence, option b.

Question 36: If four persons sit to the right of K then how many persons sit between K and C?

- A) Eight
- B) Four
- C) Six
- D) Seven
- E) None of these

Answer: A)

Solution:

If four persons sit to the right of K then eight persons sit between K and C.

Hence, option a.

Question 37: Number of persons to the left of B is ___ less than the number of persons to the right of D.

- A) Two
- B) Four
- C) Five
- D) Three

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E) None of these

Answer: D)

Solution:

Number of persons to the left of B is three less than the number of persons to the right of D.

Hence, option d.

Question 38: If R sits 4th to the right of C then what is the position of R with respect to E?

A) 3rd to the left

B) 4th to the left

C) 2nd to the left

D) Immediate right

E) None of these

Answer: C)

Solution:

If R sits 4th to the right of C, then R sits 2nd to the left of E.

Hence, option c.

Question 39: In the number '65992148542', if all the digits are arranged in increasing order from right to left then how many digits remain at the same position?

A) Three

B) Four

C) One

D) Two

E) None

Answer: C)

Solution:

Given number,

65992148542

After rearrangement,

99865544221

Only one digit i.e. 4 remains at the same position.

Hence, option c.

Question 40: How many pairs of letters are there in the word 'ADDRESS' which has as many letters between them as well as we have in the English alphabetical series from both backward and forward direction?

- A) One
- B) Three
- C) Two
- D) None
- E) More than three

Answer: A)

Solution:

Given word,

'ADDRESS'

So, there is only one such pair i.e., A E.

Hence, option a.

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