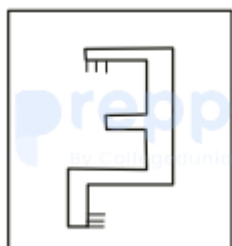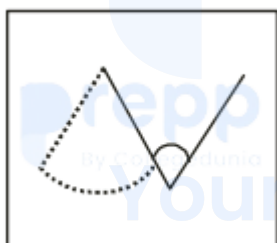# Answers

1. **Answer: c**

   Explanation:

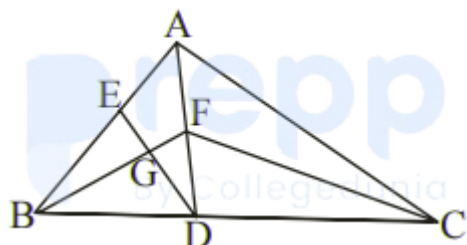2. **Answer: d**

   Explanation:

3. **Answer: b**

   Explanation:

The triangles are:

ABC; ABD; ADC; AFC;

FDC; AFB; FDB; FBC;
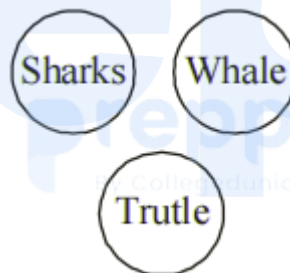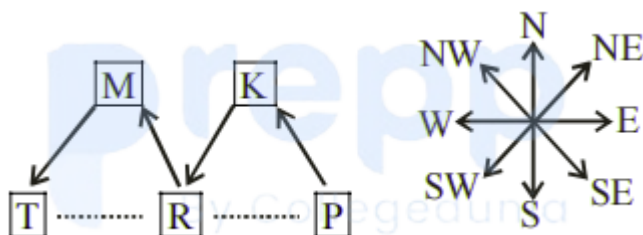
GBD; ADE; GBE; FDG;

DBE.

---

4. Answer: c

Explanation:

Sharks belong to class pisces. Whale is a mammal and Turtle belongs to class reptilia.

---

5. Answer: c

Explanation:

It is clear that T is located to the West of P.

6. Answer: b

Explanation:
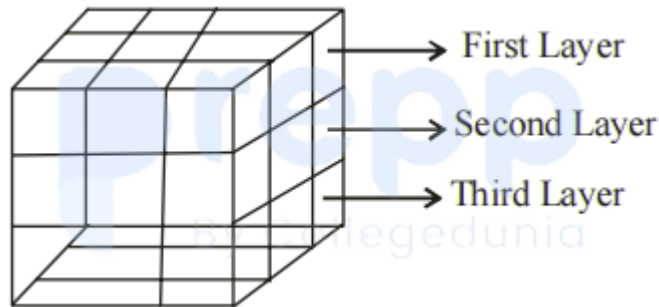
4 cubes each of the first and third layers will have paint on two sides only.

Therefore, total number of cubes having paint on two sides.

= 4 × 2 = 8

7. Answer: a

Explanation:

```
<p>First line => D</p>
<p>Second line => E</p>
<p>Third line => C</p>
<p>Fourth line=> A</p>
<p>5th line=> B</p>
```

8. Answer: b

Explanation:

As, 5 × 3 + 1 = 16,

16 × 3 + 1 = 49,

9 × 3 + 2 = 29,

29 × 3 + 2 = 89.

Therefore, 15 × 3 + 3 = 48,

48 × 3 + 3 = 147.

---

9. **Answer: b**

Explanation:

<p>24 = 4 + 5 × 4</p>
<p>=> 24 = 4 + 20</p>

---

10. **Answer: b**

Explanation:
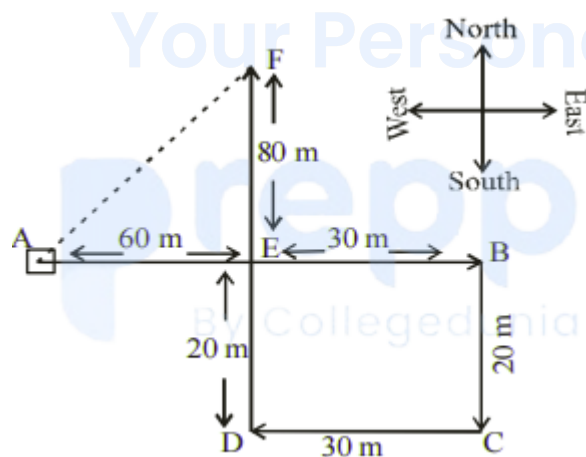
Required distance = AF

---

11. **Answer: a**

Explanation:

As, 6 × 5 = 30

30 × 3 + 1 = 91

8 × 7 = 56

56 × 3 + 1 = 169

10 × 7 = 70

70 × 3 + 1 = 211

Similarly, 11 × 10 = 110

110 × 3 + 1 = 331

12. **Answer: a**

Explanation:

S P A R K → T Q B S L

+1
+1
+1
+1
+1

Similarly,

F L A M E → G M B N F

+1
+1
+1
+1
+1

---

13. **Answer: d**

Explanation:

(12 + 6) × 18 = 36

=> (18/6) × 12 = 36

=> 3 × 12 = 36

---
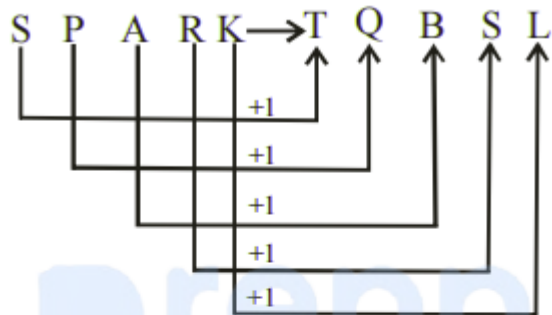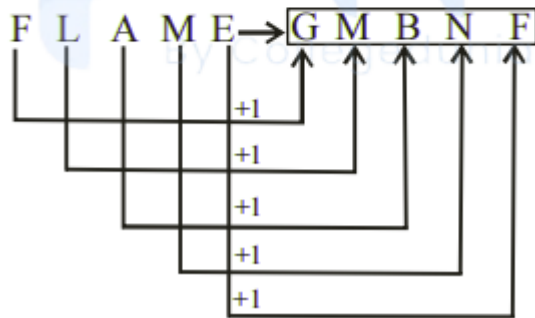
14. **Answer: a**

Explanation:

1 + 7 + 3 + 5 + 2 + 6 = 24

4 + 3 + 1 + 3 + 2 + 5 = 18

Therefore, 2 + 5 + 3 + 4 + 7 + 1 = 22

---

15. **Answer: b**

   Explanation:

   As, H O S P I T A L
   ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
   3 2 5 7 4 6 1 8
   Therefore,
   P O S T A L
   ↓ ↓ ↓ ↓ ↓ ↓
   7 2 5 6 1 8

---

16. **Answer: a**

   Explanation:

   Day before yesterday was Sunday.

   Therefore, today is Tuesday.

   Day after tomorrow will be Thursday.

   Thursday + 3 = Sunday

---

17. **Answer: b**

   Explanation:

   Suppose the number of women boarded the bus at Delhi is x.

   Therefore, the number of men = 2x

According to question,

2x − 10 = x + 5

2x − x = 10 + 5

x = 15

Total number of passengers boarded the bus initially = 3x

= 3 × 15 = 45

---

18. **Answer: c**

Explanation:

$$1 \quad 9 \quad 25 \quad 49 \quad 81$$
$$\downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow$$
$$(1)^2 \quad (3)^2 \quad (5)^2 \quad (7)^2 \quad (9)^2$$

Therefore, the number 50 is wrong in the series.

---

19. **Answer: d**

Explanation:

Meaningful word = HIPPOPOTAMUS

---

20. **Answer: c**

Explanation:

There is no 'V' letter in the given word.

21. **Answer: c**

Explanation:
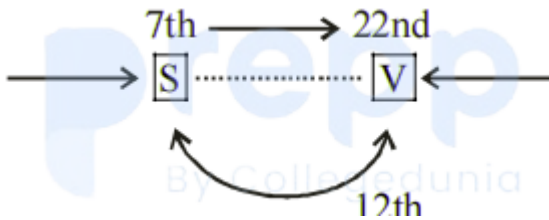
Total number of boys in the row

= 22 + 12 − 1 = 33

22. **Answer: a**

Explanation:

O is the husband of P. M is the son of P.

Therefore , M is the son of O.

23. **Answer: b**

Explanation:

<p>Suppose the present age of Ashok is x years and that of his mother is y years. </p>
<p>5 years ago </p>
<p>3 (x − 5) = (y − 5) </p>
<p>=> 3x − 15 = y − 5 </p>
<p>=>3z − y = 10 ...(i) </p>
<p>5 years hence, </p>

<p>2 (x + 5) = (y + 5) </p>
<p>=> 2x + 10 = y + 5 </p>
<p>=> 2x – y = – 5 ...(ii) </p>
<p>From equations (i) and (ii) </p>
<p>x = 15 years</p>

---

24. Answer: c

Explanation:

Meaningful order of the words :

3. Day –

5. Work –

1. Exhaust –

2. Night –

4. Sleep

---

25. Answer: d

Explanation:
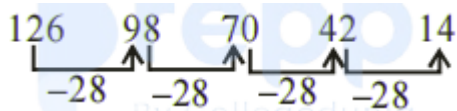
Therefore, the number 41 is wrong the series.

---

26. Answer: d

Explanation:

$30/2 = 15 * 6 = 90$

$48/2 = 24 * 8 = 192$

---

27. Answer: b

Explanation:

a $\boxed{b}$ b $\boxed{n}$ / a $\boxed{bb}$ n / $\boxed{a}$ bb $\boxed{n}$ / abbn

---

28. Answer: c

Explanation:

The pattern is as follows :

---

29. Answer: d

Explanation:

Arrangement of words according to the Dictionary :

(4) Invariable

(1) Inventory

(5) Investigate

(3) Invisible

(2) Involuntary

---

30. **Answer: c**

Explanation:

---
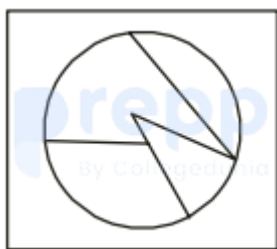
31. **Answer: c**

Explanation:
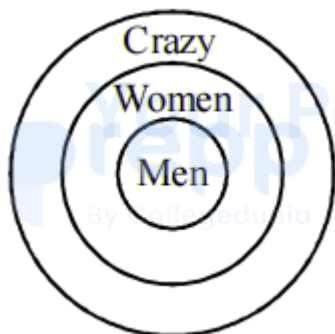
Conclusion I : True

Conclusion II : False

Conclusion III : True

Conclusion IV : True

---

32. Answer: d

Explanation:

The statement implies that politicians win elections by the votes of people. Therefore, niether of the assumptions is implicit in the statement.

---

33. Answer: d

Explanation:

3 + 1 = 4 ;

3 + 4 = 7 ;

4 + 7 = 11 ;

7 + 11 = 18

11 + 18 = 29 ;

18 + 29 = 47

---

34. Answer: c

Explanation:

975   864   753   642   531
      −111   −111   −111   −111

---

35. Answer: a

Explanation:

---

36. **Answer: b**

Explanation:

---

37. **Answer: c**

Explanation:

Except Tide, all other terms are related to both air and water. But tide is a regular rise and fall in the level of sea, caused by the attraction of the moon and sun.

---

38. **Answer: c**

Explanation:

Bulb is an item while all others are phenomena.

---

39. Answer: d

Explanation:

Except the number pair 9, 64 in all others perfect squares of two consecutive numbers are given:

$$25 \qquad 36$$
$$\downarrow \qquad \downarrow$$
$$(5)^2 \qquad (6)^2$$
$$144 \qquad 169$$
$$\downarrow \qquad \downarrow$$
$$(12)^2 \qquad (13)^2$$
$$100 \qquad 121$$
$$\downarrow \qquad \downarrow$$
$$(10)^2 \qquad (11)^2$$
But,
$$9 \qquad 64$$
$$\downarrow \qquad \downarrow$$
$$(3)^2 \qquad (8)^2$$

40. Answer: b

Explanation:

Except the position of Y each letter's position in English alphabet is even number.

41. Answer: d

Explanation:

42. Answer: c

Explanation:

Except in letter group IXYOQ, in all others there is only one vowel.

In the letter group IXYOQ, there are two vowels.

43. Answer: a

Explanation:

As,
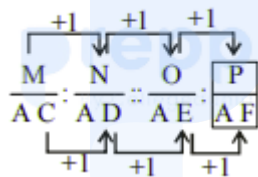
44. Answer: c

Explanation:

As,
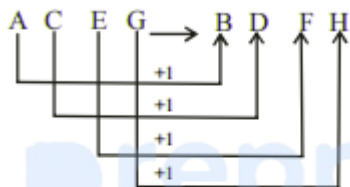
Similarly,
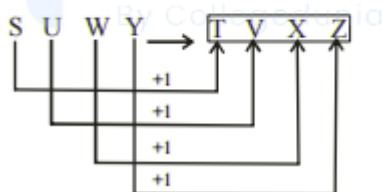
45. Answer: c

Explanation:

A + B + E = 1 + 2 + 5 = 8

Similarly,

K + L + O = 11 + 12 + 15 = 38

46. Answer: b

Explanation:

The resting place of pig is called Sty. Similarly, the resting place of cow is called Byre.

47. Answer: a

Explanation:

As, 5 × 5 + 2 = 27

Similarly, 9 × 9 + 2 = 83

48. Answer: b

Explanation:

As,
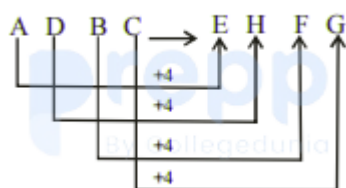
Similarly,
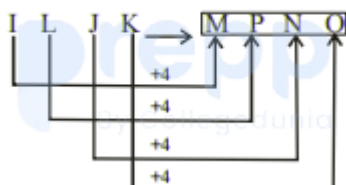
49. Answer: d

Explanation:

In order to ensure security, police or defence personnel patrol the area. Similarly, to cover risk, insurance is done.

50. Answer: c

Explanation:

As, 6 × 2 − 1 = 11

Similarly, 11 × 2 − 1 = 21

51. Answer: b

Explanation:

National income is the total value of a country's final output of all new goods and services produced in one year.

---

52. **Answer: c**

Explanation:

No change will happen.

---

53. **Answer: d**

Explanation:

Bats are good at flying at night because they use sound rather than sight to navigate. Bats send pulses of sound through their mouths or noses, and these pulses echo back outlining the objects in the bats' flight path. The ears of a bat are large and oddly constructed, but they help it determine where the echoes are coming from.

---

54. **Answer: c**

Explanation:

Mitchell Johnson ICC Cricketer of the Year

---

55. **Answer: b**

Explanation:

Floating exchange rate

56. Answer: d

Explanation:

Micro Economics

57. Answer: b

Explanation:

Monopolistic competition

58. Answer: d

Explanation:

T-bills are issued to meet short-term mismatches in receipts and expenditure. Bonds of longer maturity are called dated securities.

59. Answer: d

Explanation:

The Reserve Bank of India is India's central banking institution, which controls the monetary policy of the Indian rupee. It commenced its operations on 1 April 1935 during the British Rule in accordance with the provisions of the Reserve Bank of India Act, 1934.

60. **Answer: c**

    Explanation:

    Reserve Bank of India

---

61. **Answer: c**

    Explanation:

    Matrix method

---

62. **Answer: b**

    Explanation:

    can process small data processing jobs, with the use of a large CPU

---

63. **Answer: c**

    Explanation:

    Prabodh Chandra Dey, known by his stage name Manna Dey, was an Indian playback singer. He debuted in the film Tamanna in 1942 with the song 'Upar Gagan Bishal' and went on to record more than 4,000 songs from 1942 to 2013. The Government of India honored him with the Padma Shri in 1971, the Padma Bhushan in 2005, and the Dadasaheb Phalke Award in 2007.

---

64. **Answer: a**

Explanation:

Red Rose

---

65. **Answer: a**

Explanation:

Mercury

---

66. **Answer: a**

Explanation:

Trailing 2-3 at one stage, a resilient Advani came back well to claim his third consecutive national title.

---

67. **Answer: d**

Explanation:

The volume or intensity of sound is measured in a unit called decibel (dB)

---

68. **Answer: b**

Explanation:

The Sundarbans is a natural region comprising southern Bangladesh and a part in the Indian state of West Bengal. It is the largest single block of tidal halophytic mangrove forest in the world.

---

69. **Answer: c**

    Explanation:

    The Indian Foreign Service (IFS) is not an All India Service, while the Indian Administrative Service (IAS), Indian Police Service (IPS), and Indian Forest Service (IFS) are:

---

70. **Answer: b**

    Explanation:

    The prime minister is appointed by the president of India; however, the prime minister has to enjoy the confidence of the majority of Lok Sabha members, who are directly elected every five years, lest the prime minister shall resign.

---

71. **Answer: b**

    Explanation:

    Planning Commission was an extra-constitutional body.

---

72. **Answer: a**

    Explanation:

Parliamentary and Presidential

---

73. **Answer: c**

Explanation:

अल्फा सेंटॉरी सूर्य के बाद पृथ्वी का दूसरा सबसे नजदीकी तारा है। अल्फा सेंटॉरी प्रणाली तीन तारों से बनी है, और इनमें से पृथ्वी के सबसे नजदीक का तारा प्रॉक्सिमा सेंटॉरी है

---

74. **Answer: d**

Explanation:

The Directive Principles of State Policy (DPSP) in the Indian Constitution were adopted from the Irish Constitution

---

75. **Answer: b**

Explanation:

The real benchmarking of the government policy on decentralization can be attributed to Lord Ripon, who, in his famous resolution on local self-government on May 18, 1882, recognized the twin considerations of local government: (i) administrative efficiency and (ii) political education.

---

76. **Answer: b**

Explanation:

The correct answer is 82.5. The Indian Standard Time corresponds to the longitude 82.5 degrees East. It passes through Mirzapur city in Uttar Pradesh.

---

77. **Answer: d**

Explanation:

Advection is the transfer of heat or matter by the flow of a fluid, especially horizontally in the atmosphere or the sea.

---

78. **Answer: a**

Explanation:

the output frequency in a full-wave rectifier is equal to 2 times the input frequency.

---

79. **Answer: a**

Explanation:

Tropical

---

80. **Answer: b**

Explanation:

Yardang

---

81. **Answer: b**

Explanation:

A tsunami, also known as a seismic sea wave, is a series of waves in a water body caused by the displacement of a large volume of water, generally in an ocean or a large lake.

82. **Answer: d**

Explanation:

Leo Tolstoy

83. **Answer: d**

Explanation:

A trade bloc is a type of intergovernmental agreement, often part of a regional intergovernmental organization, where regional barriers to trade (tariffs and non-tariff barriers) are reduced or eliminated among the participating states.

84. **Answer: b**

Explanation:

Cultural unity

85. Answer: a

Explanation:

Portuguese

---

86. Answer: d

Explanation:

The Servants of India Society was formed in Pune, Maharashtra, on June 12, 1905, by Gopal Krishna Gokhale, who left the Deccan Education Society to form this association.

---

87. Answer: d

Explanation:

V.D. Savarkar

---

88. Answer: d

Explanation:

4, 5, 1, 3, 2

Ilbari Turks

Khiljis

Tughlaqs

Saiyids

Lodis

---

89. **Answer: a**

Explanation:

Arboreal animals are creatures who spend the majority of their lives in trees. They eat, sleep, and play in the tree canopy. Examples include monkeys, koalas, possums, sloths, rodents, parrots, chameleons, geckos, tree snakes, and various insects.

---

90. **Answer: a**

Explanation:

Respiration

---

91. **Answer: a**

Explanation:

Boiling point of heavy water is lower than that of ordinary water.

---

92. **Answer: b**

Explanation:

Acetic acid, also known as ethanoic acid, is an organic chemical compound best recognized for giving vinegar its sour taste and pungent smell. It is one of the simplest carboxylic acids and has the chemical formula CH3COOH.

93. **Answer: b**

    Explanation:

    Mitochondria

94. **Answer: a**

    Explanation:

    Phospholipid

95. **Answer: b**

    Explanation:

    Caesium

96. **Answer: a**

    Explanation:

    adiabatic compression and rarefaction

97. **Answer: b**

Explanation:

shearing stress to shearing strain

---

98. **Answer: d**

Explanation:

Chloropicrin

---

99. **Answer: a**

Explanation:

Vitamin B-12, also called cobalamin, is a water-soluble vitamin that has a key role in the normal functioning of the brain and nervous system, and the formation of red blood cells.

---

100. **Answer: b**

Explanation:

virtual and erect

This is because a concave lens diverges light rays, and the image formed is always virtual (cannot be projected on a screen) and erect (upright)

101. Answer: d

Explanation:

If the speed of the train be x kmph, then relative speed
$= (x - 3)$ kmph.

$$= (x - 3) \times \frac{5}{8} \, m/sec$$

$$\therefore \frac{300}{(x - 3) \times \frac{5}{18}} = 33$$

$$\Rightarrow 5400 = 33 \times 5(x - 3)$$

$$\Rightarrow 360 = 11(x - 3)$$

$$\Rightarrow 11x - 33 = 360$$

$$\Rightarrow x = \frac{393}{11} = 35\frac{8}{11} \, kmph$$

102. Answer: c

Explanation:

(B + C)'s 2 days' work

$$= 2\left(\frac{1}{20} + \frac{1}{30}\right) = 2\left(\frac{3+2}{60}\right)$$

$$= \frac{1}{6} \text{ part}$$

Remaining work $= 1 - \frac{1}{6} = \frac{5}{6} \text{ part}$

∴ Time taken by A to complete this part of work

$$= \frac{5}{6} \times 18 = 15 \text{ days}$$

---

103. Answer: b

Explanation:

4/3 of usual time = Usual time + 20 minutes,

1/3 rd of Usual time

= 20 minutes

Usual time = 20 * 3

= 60 minutes

---

104. Answer: a

Explanation:

(A + B)'s 1 day's work = 1/15,

B's 1 day's work = 1/20,

A's 1 day's work = 1/15 – 1/20 = 1/60.

A alone will do the work in 60 days.

---

105. Answer: d

Explanation:

$$5 \text{ men} \equiv 7 \text{ women}$$

$$\therefore 7 \text{ men} \equiv \frac{7}{5} \times 7 = \frac{49}{5} \text{ women}$$

$$\therefore 7 \text{ men} + 13 \text{ women}$$

$$= \frac{49}{5} + 13 = \frac{114}{5} \text{ women}$$

Now,

$$\because 7 \text{ women} \equiv ₹5250$$

$$\therefore \frac{114}{5} \text{ women}$$

$$\equiv \frac{5250}{7} \times \frac{114}{5} = ₹17100$$

---

106. Answer: b

Explanation:

Father + mother

= 2 × 35 = 70 years

Father + mother + son

= 27 × 3 = 81 years

Son's age = 81 − 70 = 11 years

---

107. **Answer: c**

Explanation:

$$1 + 2 + 3 + \ldots + n = \frac{n(n+1)}{2}$$

$\therefore$ Average of these numbers

$$\therefore \text{Average} = \frac{n+1}{2}$$

$$= \frac{100+1}{2} = 50.5$$

---

108. **Answer: b**

Explanation:

Let the annual instalment be ₹x.

$$\therefore \left(x + \frac{x \times 3 \times 5}{100} \right)$$

$$+ \left(x + \frac{x \times 2 \times 5}{100} \right) + \left(x + \frac{x \times 1 \times 5}{100} \right) + x = 6450$$

$$\Rightarrow \frac{115x}{100} + \frac{110x}{100} + \frac{105x}{100} + x = 6450$$

$$\Rightarrow 115x + 110x + 105x + 100x$$

$$= 6450 \times 100$$

$$\Rightarrow 430x = 6450 \times 100$$

$$\therefore x = \frac{6450 \times 100}{430} = ₹1500$$

---

109. Answer: a

Explanation:

$$A = P\left(1 + \frac{R}{100}\right)^T$$

$$\Rightarrow \frac{1102.50}{1000} = \left(1 + \frac{r}{100}\right)^2$$

$$\Rightarrow \frac{11025}{10000} = \left(1 + \frac{r}{100}\right)^2$$

$$\Rightarrow \left(\frac{105}{100}\right)^2 = \left(1 + \frac{r}{100}\right)^2$$

$$\Rightarrow 1 + \frac{r}{100} = \frac{105}{100}$$

$$\Rightarrow \frac{r}{100} = \frac{105}{100}$$

$$\Rightarrow r = 5\%$$

110. Answer: d

Explanation:

Circumference $= 2\pi r$ (one variable)

$\therefore$ The decrease in area $= 50 - 50 + \dfrac{50 \times 50}{100}$

$$= -75\%$$

111. Answer: c

Explanation:

Distance coverd in 10 minutes at 20kmph =

distance covered in 8 minutes at (20 + x) kmph

$$\Rightarrow 20 \times \frac{10}{60} = \frac{8}{60}(20 + x)$$
$$\Rightarrow 200 = 160 + 8x$$
$$\Rightarrow 8x = 40$$
$$\Rightarrow x = \frac{40}{8} = 5 \text{ kmph}$$

112. Answer: a

Explanation:

$$A = P\left(1 + \frac{R}{100}\right)^T$$

$$2 = 1\left(1 + \frac{\text{Rate}}{100}\right)^{15}$$

Cubing on both sides, we have

$$8 = 1\left(1 + \frac{\text{Rate}}{100}\right)^{45}$$

Required time = 45 years

113. **Answer: d**

Explanation:

Let the required number be x,

$$\therefore \frac{7+x}{11+x} = \frac{3}{4}$$
$$\Rightarrow 28 + 4x = 33 + 3x$$
$$\Rightarrow x = 33 - 28 = 5$$

---

114. **Answer: c**

Explanation:

A's share = 3/5 * 1000 = 600.

---

115. **Answer: b**

Explanation:

Length of the longest rod

$$\sqrt{a^2 + b^2 + c^2}$$
$$= \sqrt{10^2 + 10^2 + 5^2}$$
$$= \sqrt{225} = 15 \text{ metre}$$

---

116. **Answer: c**

Explanation:
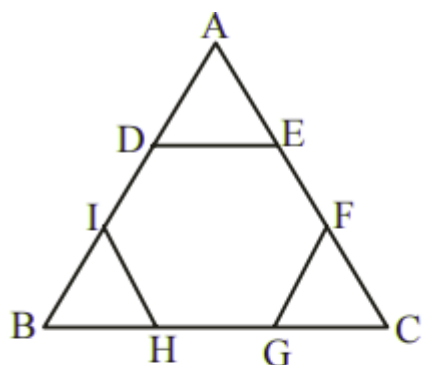
Side of the regular hexagon

$$= \frac{1}{3} \times 6 = 2 \text{ cm}$$

$\therefore$ Area of the hexagon $= \dfrac{3\sqrt{3}}{2} a^2$

$$= \frac{3\sqrt{3}}{2} \times 2 \times 2$$

$$= 6\sqrt{3} \text{ sq. cm.}$$

---

117. **Answer: b**

Explanation:

$$\frac{\sqrt{3+x} + \sqrt{3-x}}{\sqrt{3+x} - \sqrt{3-x}} = \frac{2}{1}$$

By componendo and dividendo,

$$\Rightarrow \frac{2\sqrt{3}+x}{2\sqrt{3}-x} = \frac{2+1}{2-1} = 3$$

Squaring both sides,

$$\frac{3+x}{3-x} = 9$$

$$\Rightarrow 3+x = 27-9x$$

$$\Rightarrow 9x+x = 27-3 = 24$$

$$\Rightarrow x = \frac{24}{10} = \frac{12}{5}$$

---

118. **Answer: c**

Explanation:

Single equivalent percentage increase in price

$$= \left(10+10+\frac{10\times10}{100}\right)\% = 21\%$$

---

119. **Answer: d**

Explanation:

$$\frac{A\times60}{100} = B\times\frac{3}{4}$$

$$\Rightarrow A\times\frac{3}{5} = B\times\frac{3}{4}$$

$$\Rightarrow \frac{A}{B} = \frac{3}{4}\times\frac{5}{3} = 5:4$$

120. **Answer: a**

   Explanation:

   Let the numbers be 3x and 5x.

   3x × 5x = 2160,

   x = 12, Smaller number = 36.

121. **Answer: c**

   Explanation:

   Required percentage = 1.14/1.9 * 100 = 60%.

122. **Answer: b**

   Explanation:

   Required percentage

   = (50 – 100)/50 * 100=100l

123. **Answer: d**

   Explanation:

If the S.P. of article be ₹x,

then its $CP = x - \dfrac{x}{4} = ₹ \dfrac{3x}{4}$

$\therefore Gain\% = \dfrac{\dfrac{x}{4}}{\dfrac{3x}{4}} \times 100$

$= \dfrac{100}{3} = 33\dfrac{1}{3}\%$

---

124. **Answer: b**

Explanation:

C.P. of bicycle = 100/114 * 2850,

S.P. for a profit of 8% = 108/100 * 2850= 114/100= 2700.

---

125. **Answer: a**

Explanation:

Let the CP be 100.

SP = 112.

If the marked price be x, then

90% of x = 112

$$\Rightarrow x = \frac{112 \times 100}{90} = ₹\frac{1120}{9}$$

∴ Required ratio

$$= 100 : \frac{1120}{9}$$

$$= 900 : 1120 = 45 : 56$$

---

126. Answer: c

Explanation:

Marked price = Rs. 50

S.P. after discount = 80% of 50

= Rs.40

If the CP of article be Rs.x, then $25 = \frac{40 - CP}{CP} \times 100 = 32$

---

127. Answer: b

Explanation:

Gain $= 11x - 10x = ₹x$

$$\therefore p\% = \frac{p \times 100}{p} \times 100$$

$$= \frac{x}{10x} \times 100 = 10$$

---

128. **Answer: d**

Explanation:

Expression: a^2 − b^2 = 19. 10^2 − 9^2 = 19. a = 10.

---

129. **Answer: b**

Explanation:

If $256 = a$ and $144 = b$, then

$\dfrac{a^2 - b^2}{a - b}$

$[a - b = 256 - 144 = 112]$

$= \dfrac{(a+b)(a-b)}{(a-b)} = a+b$

$= 256 + 144 = 400$

---

130. **Answer: a**

Explanation:

$\dfrac{a^2 + b^2 + ab}{a^3 - b^3}$

$= \dfrac{a^2 + b^2 + ab}{(a-b)(a^2 + b^2 + ab)} = \dfrac{1}{a-b}$

$= \dfrac{1}{11 - 9} = \dfrac{1}{2}$

131. Answer: c

Explanation:

Expression: $(a^4 - b^4) = (a + b)(a - b)$.

Required number = $(3 + 1)(3 - 1) = 8$.

132. Answer: a

Explanation:

$$\frac{4.41 \times 0.16}{2.1 \times 1.6 \times 0.21}$$

$$= \frac{441 \times 16}{21 \times 16 \times 21} = 1$$

133. Answer: b

Explanation:

1/999

134. Answer: a

Explanation:

1236

135. **Answer: b**

Explanation:

675 = 5 × 5 × 3 × 3 × 3 = 5.

Number to be multiplied.

---

136. **Answer: d**

Explanation:

Let the capacity of the drum be x litres

$$\therefore \frac{3x}{4} - 30 = \frac{7x}{12}$$

$$\Rightarrow \frac{3x}{4} - \frac{7x}{12} = 30$$

$$\Rightarrow \frac{9x - 7x}{12} = 30$$

$$\Rightarrow \frac{x}{6} = 30$$

$$= x = 6 \times 30 = 180 \text{ litres}$$

---

137. **Answer: c**

Explanation:

Let the numbers be 3x and 4x.

Their LCM = 12x.

12x = 84,

x = 84/12=7

Larger number

= 4x = 4 × 7 = 28

---

138. **Answer: c**

Explanation:

$$\left(\frac{3}{5}\right)^3 \left(\frac{3}{5}\right)^{-6} = \left(\frac{3}{5}\right)^{2x-1}$$

$$\Rightarrow \left(\frac{3}{5}\right)^3 \left(\frac{3}{5}\right)^{-3} \left(\frac{3}{5}\right)^{-3} = \left(\frac{3}{5}\right)^{2x-1}$$

$$\Rightarrow \left(\frac{3}{5}\right)^0 \left(\frac{3}{5}\right)^{-3} = \left(\frac{3}{5}\right)^{2x-1}$$

$\Rightarrow 2x - 1 = -3$

$\Rightarrow 2x = -3 + 1 = -2$

$\Rightarrow x = -1$

---

139. **Answer: c**

Explanation:

0.121212... = 0.12. 12/99 = 4/33.

---

140. **Answer: a**

Explanation:

0.3

---

141. Answer: b

Explanation:

If the first divisor is a multiple of the second divisor,

then remainder by the second divisor = 21 ÷ 19 = 2.

---

142. Answer: b

Explanation:

36

---

143. Answer: a

Explanation:

1 + 0.6 + 0.06 + 0.006 + 0.0006.

$$+ \ldots = 1.666\ldots = 1.\overline{6}$$

$$= 1\frac{6}{9} = 1\frac{2}{3}$$

---

144. Answer: c

Explanation:

If 0.5 = a and 0.3 = b then,

$$\text{Expression} = \frac{a^3 + b^3}{a^2 - ab + b^2}$$

$$= \frac{(a+b)(a^2 - ab + b^2)}{a^2 - ab + b^2} = a + b$$

$$= 0.5 + 0.3 = 0.8$$

---

145. Answer: c

Explanation:

0 + 3 = 3,

3 + 5 = 8,

8 + 7 = 15,

15 + 9 = 24,

24 + 11 = 35,

35 + 13 = 48,

48 + 15 = 63,

63 + 17 = 80.

---

146. Answer: b

Explanation:

```
2 | 20, 28,  32,  35
2 | 10, 14,  16,  35
5 |  5,  7,   8,  35
7 |  1,  7,   8,   7
   |  1,  1,   8,   1
```

LCM = 2 × 2 × 5 × 7 × 8 = 1120.

Required number

= 5834 − 1120 = 4714

---

147. **Answer: d**

Explanation:

p × q = HCF × LCM.

Second number = 8*48/24 = 16.

---

148. **Answer: c**

Explanation:

Yasin got the minimum votes.

$$\because 360° \equiv 720$$

$$\therefore 60° \equiv \frac{720}{360} \times 60 = 120$$

---

149. **Answer: a**

Explanation:

Angles of the difference of votes of the winner and the nearest rival = 120° − 100° = 20°

$$\because 360° \equiv 720$$

$$\therefore 20° \equiv \frac{720}{360} \times 20 = 40$$

---

150. Answer: a

Explanation:

Sivaraman got the maximum votes, i.e.

720/360*120 = 240 votes.

He was the winner.

---

151. Answer: c

Explanation:

Correct Option: (c) a linguist

Explanation: The passage discusses language, vocabulary, and terminology, indicating that the writer has expertise in language, making "linguist" the best answer.

---

152. Answer: b

Explanation:

Correct Option: (b) technical terminology

Explanation: The passage mainly discusses the use of special vocabularies or technical jargon in various professions and trades.

---

153. Answer: a

Explanation:

Correct Option: (a) may become part of common speech

Explanation: The passage mentions that some technical terms, especially those from trades and vocations, have become familiar and are used in everyday language.

---

154. Answer: d

Explanation:

No solution provided.

---

155. Answer: c

Explanation:

The average man often uses in his own vocabulary what was once technical language not meant for him.

---

156. Answer: c

Explanation:

The criminal did not speak a word in self-defense.

---

157. **Answer: c**

Explanation:

A film, based on this novel, has been made.

---

158. **Answer: b**

Explanation:

He has brought us the news

---

159. **Answer: d**

Explanation:

Why were you deprived of your membership by him?

---

160. **Answer: a**

Explanation:

I couldn't be moved to the hospital and was operated on at home by the doctor.

---

161. Answer: d

Explanation:

The sequence that makes the most sense is:

SPRQ: The passage first raises a question (S), then mentions the intellectuals leaving (P), questions their obligation (R), and finally, points out the issue of opportunities (Q).

---

162. Answer: b

Explanation:

The sequence that makes the most sense is:

QPSR: First, it talks about the continued glory (Q), then the changes after British rule (P), followed by the specific change of English introduction (S), and finally the response to English (R).

---

163. Answer: a

Explanation:

The sequence that makes the most sense is:

PRSQ: The passage should first discuss the man with evenness of temper (P), mention the root of the matter (R), note the issue of abstaining from action (S), and

then discuss yoga (Q).

---

164. **Answer: b**

Explanation:

The sequence that makes the most sense is:

QPRS: The passage first states the reason for the importance of the day (Q), notes that it was cold but he was warm (P), describes him putting on his jacket (R), and then the mittens and boots (S).

---

165. **Answer: a**

Explanation:

The sequence that makes the most sense is:

SRPQ: The passage should first mention the limited time parents spend (S), why they are busy (R), how children take advantage of it (P), and the resulting ignorance (Q).

---

166. **Answer: d**

Explanation:

Correct spellings of other words are: severity, sovereignty, and superiority.

---

167. **Answer: d**

Explanation:

Correct spellings of other words are: benediction, besmirch, and beneficent.

168. **Answer: b**

Explanation:

Correct spellings of other words are: circuitous, chivalry, and cavalcade.

169. **Answer: a**

Explanation:

Correct spellings of other words are: commemorate, collate, and chocolate.

170. **Answer: d**

Explanation:

Correct spellings of other words are: cumulative, commemorative, and accumulative.

171. **Answer: b**

Explanation:

Correct Option: (b) "Ineffable"

Explanation: "Ineffable" means something that is too great or extreme to be expressed or described in words.

Correct Answer: (b) Ineffable

---

172. **Answer: a**

Explanation:

Correct Option: (a) "Subterfuge"

Explanation: "Subterfuge" refers to deceit used to achieve one's goal, especially to justify misconduct.

Correct Answer: (a) Subterfuge

---

173. **Answer: c**

Explanation:

Correct Option: (c) "Ethnology"

Explanation: "Ethnology" is the study of the characteristics of different peoples and the differences and relationships between them.

Correct Answer: (c) Ethnology

---

174. **Answer: d**

Explanation:

Correct Option: (d) "Internment"

Explanation: "Internment" refers to the act of detaining or confining someone, especially during wartime.

Correct Answer: (d) Internment

---

175. **Answer: b**

Explanation:

Correct Option: (b) "Iconoclast"

Explanation: An "Iconoclast" is a person who attacks or criticizes cherished beliefs or institutions.

Correct Answer: (b) Iconoclast

---

176. **Answer: a**

Explanation:

Word for word' means in exactly the same words or exactly equivalent words.

---

177. **Answer: a**

Explanation:

The phrase 'cut out' means to have the qualities and abilities needed for something.

---

178. **Answer: c**

Explanation:

Requires a wash.

---

179. **Answer: a**

Explanation:

Correct Option: (a) "sought after"

Explanation: "Sought after" is the correct phrase to indicate something that is highly desired or in demand.

Correct Sentence: "Power sought after with money is the most craved for today."

---

180. **Answer: b**

Explanation:

The word 'Sensual' means connected with physical feelings; especially sexual pleasures.

---

181. **Answer: c**

Explanation:

The word 'Onus' means responsibility for something.

---

182. **Answer: c**

Explanation:

The word 'Cantankerous' means bad tempered and always complaining. Hence, 'Cantankerous' and 'Quarrelsome' are synonyms.

---

183. **Answer: d**

Explanation:

The word 'Luxuriant' means growing thickly and strongly; abundant.

---

184. **Answer: a**

Explanation:

The word 'Trite' means dull and boring because it has been expressed many times before; commonplace. Hence, 'Trite' and 'Commonplace' are synonyms.

---

185. **Answer: c**

Explanation:

The word 'Derision' means ridicule; mockery.

---

186. **Answer: c**

Explanation:

The word 'Verity' (Noun) means: a belief or principle about life that is accepted as true; truth.

Hence, the words 'verity' and 'falsehood' are antonyms.

---

187. **Answer: d**

Explanation:

The word 'Meandering' means not straight; curved.

Hence, 'Meandering' and 'Straight' are antonyms.

---

188. **Answer: b**

Explanation:

The word 'Florid' (Adjective) means: rosy; gaudy; ornate; red; having too much decoration or detail.

The word 'Pale' (Adjective) means: light in color; not strong or bright; having skin that is almost white because of illness.

Hence, the words 'florid' and 'pale' are antonyms.

---

189. **Answer: a**

Explanation:

The word 'Perspicuity' means clarity.

The word 'Vagueness' means lack of clarity.

Hence, the words are antonyms.

190. Answer: c

Explanation:

The word 'Fervent' means having strong and sincere feelings.

The word 'Dispassionate' means not influenced by emotion.

Hence, the words are antonyms.

191. Answer: a

Explanation:

Correct Option: (a) "didn't have to do"

Explanation: The phrase "didn't have to do" indicates that the action was not necessary, though it was done.

Correct Sentence: "It was very kind of you to do the washing-up, but you didn't have to do it."

192. Answer: a

Explanation:

Correct Option: (a) "was it?"

Explanation: This is a tag question, and the correct tag for a negative statement is a positive question tag.

Correct Sentence: "The hotel was not too expensive, was it?"

193. **Answer: b**

Explanation:

Correct Option: (b) "to"

Explanation: The correct preposition here is "to" when indicating a destination.

Correct Sentence: "He went to sea alone."

194. **Answer: d**

Explanation:

Correct Option: (d) "metamorphosis"

Explanation: "Metamorphosis" means a complete transformation, which fits the context of civilization changing from one form to another.

Correct Sentence: "The metamorphosis of our civilization from an agricultural society to today's complex industrial world was accompanied by war."

195. **Answer: b**

Explanation:

Correct Option: (b) "filled"

Explanation: The sentence needs the past participle "filled" to indicate the action performed by the dentist.

Correct Sentence: "Like humans, zoo animals must have a dentist filled their teeth."

196. **Answer: a**

Explanation:

After knowing the truth' will be the correct usage.

---

197. **Answer: c**

Explanation:

Neither is used for two things. For more than two things, 'none' should be used.

---

198. **Answer: a**

Explanation:

Error: (a) "cum" should be "cup". The word "cum" is incorrect in this context.

Correct Sentence: "A cup of coffee is an excellent complement to smoked salmon."

---

199. **Answer: b**

Explanation:

It is time/It is high time' is followed by the clause in simple past that shows present time. Hence, 'decided on your next' should be used.

---

200. **Answer: c**

Explanation:

Replace 'let him speak' with 'should be allowed to speak'.