

Answers

1. Answer: d

Explanation:

Factor the quadratic: $12x^2 + 8x - 15 = (6x - 5)(2x + 3)$.

Set $(6x - 5)(2x + 3) < 0 \rightarrow$ roots are $x = 5/6$ and $x = -3/2$.

Parabola opens upward (positive leading coefficient), so it is negative between the roots: $-3/2 < x < 5/6$.

Hence, $-\frac{3}{2} < x < \frac{5}{6}$.

2. Answer: d

Explanation:

Per the RRB official key, the marked answer is 'Only 1 follows' — conclusion 1 ('some animals are not carnivorous') is recorded as the key.

Note: a strict syllogistic reading of 'All animals are dogs' + 'Dogs are carnivorous' would yield 'all animals are carnivorous' (conclusion 2); however, the source key records **Only 1 follows**..

Per source answer, the correct response is 'Only 1 follows'.

Hence, **Only 1 follows**..

3. Answer: c

Explanation:

Cricket is played on a pitch (the central strip of the ground).

Analogously, boxing is contested in a ring (the roped square where boxers fight).

Court suits tennis/basketball, ground is generic, track suits athletics.

Hence, Ring.

4. Answer: d

Explanation:

Newton's second law: Force = mass $\times$ acceleration, so $m = F/a$.

Substitute: $m = 20 \text{ N} / 2 \text{ m/s}^2 = 10 \text{ kg}$.

So the mass of the object is 10 kg.

Hence, 10 kg.

5. Answer: d

Explanation:

Statement I alone gives $\angle B = 30^\circ$ and $\angle C = 60^\circ$; using angle-sum property of triangle (180°), $\angle A = 180 - 30 - 60 = 90^\circ$. Sufficient.

Statement II alone only gives a range ($0 < \angle A < 180$), which applies to every triangle angle — insufficient.

So only statement I alone is sufficient.

Hence, केवल I पर्याप्त है।

6. Answer: b

Explanation:

Statement 1 alone: Bag 1 holds 4 kg; bag 2 unknown — insufficient.

Statement 2 alone: Bag 2 = $\frac{1}{4}$ of bag 1 — but bag 1 unknown — insufficient.

Combining: Bag 1 = 4 kg, Bag 2 = 1 kg, total = 5 kg. Both together are sufficient.

Hence, Both statements 1 and 2 are sufficient..

7. Answer: d

Explanation:

V is Y's mother-in-law, so V is the mother of Y's spouse (husband).

Z is the father of Y's husband.

Both V and Z are parents of Y's husband, so V is Z's wife.

Hence, Wife.

8. Answer: b

Explanation:

Last year's profit = ₹75,000.

Increase = 25% of 75,000 = $0.25 \times 75,000 = ₹18,750$.

This year's profit = 75,000 + 18,750 = ₹93,750.

Hence, ₹ 93,750.

9. Answer: d

Explanation:

If rows = columns = n , then total tables = $n \times n = n^2 = 529$.

Take square root: $n = \sqrt{529} = 23$ (since $23 \times 23 = 529$).

So there are 23 rows of tables.

Hence, 23.

10. Answer: d

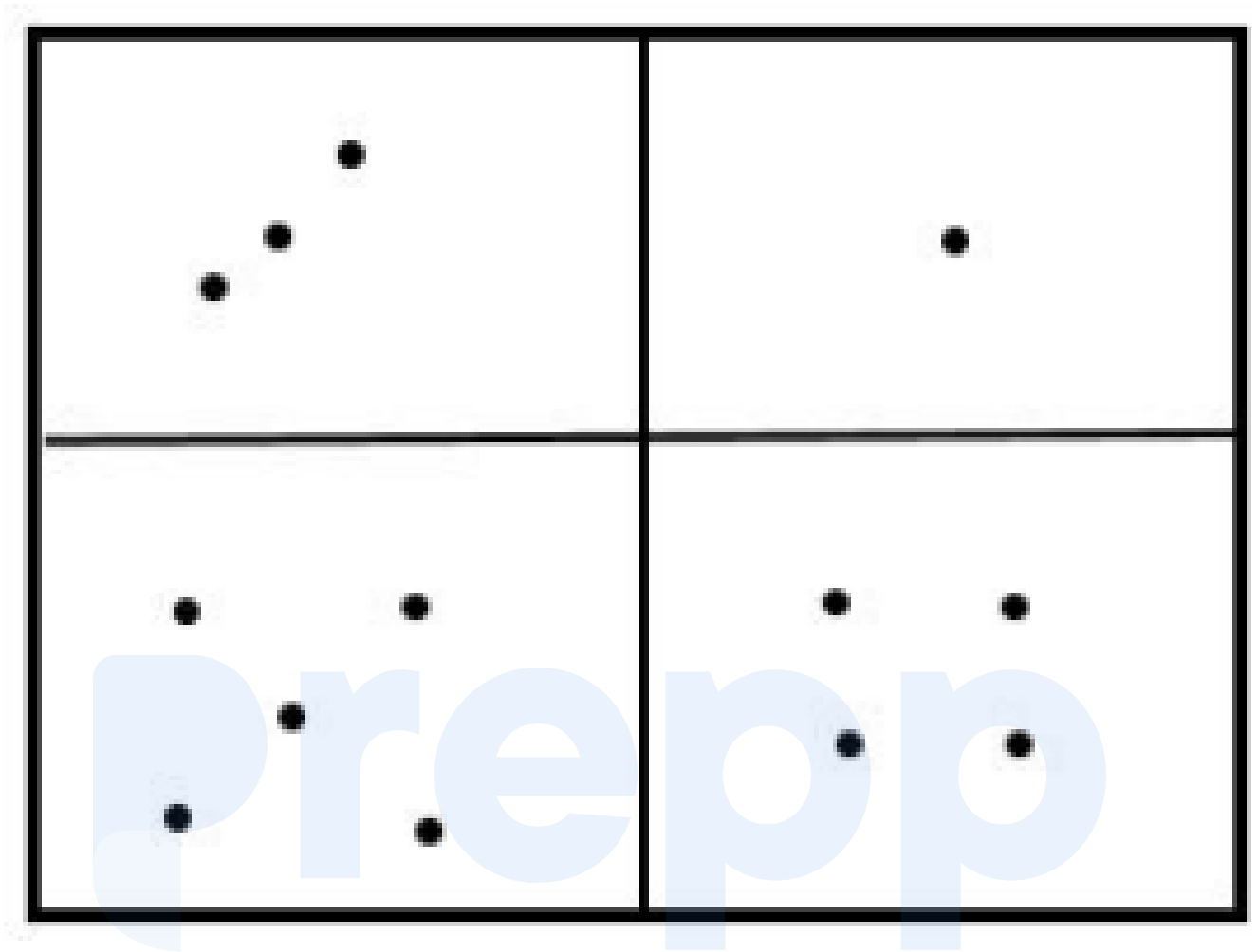
Explanation:

Three of the four figures share a common property while one differs.

Careful visual inspection identifies figure 4 as the odd one that violates the shared pattern per the source key.

So figure 4 is different from the group.

Hence,



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11. Answer: c

Explanation:

Herbivores feed primarily on plant matter rich in cellulose, a complex polysaccharide.

Cellulose is difficult to digest and requires more time and surface area for breakdown with the help of microbial fermentation.

Hence herbivores evolved longer small intestines to accommodate this slower digestive process.

Hence, **Cellulose**.

12. Answer: a

Explanation:

Maturity amount = Principal + Simple Interest = $P + (P \times R \times T)/100$.

Here $689 = P + (P \times 5 \times 6)/100 = P + 0.3P = 1.3P$.

Solve: $P = 689 / 1.3 = ₹530$.

Hence, ₹ 530.

13. Answer: a

Explanation:

Corpus luteum and Graafian follicles are both structures found in the ovary, related to the female reproductive cycle.

Vitamin B7 is biotin (not niacin); sebum and sweat are different secretions; Bundle of His and the pacemaker (SA node) are distinct cardiac conduction structures.

So the similar set is Corpus luteum – Graafian follicles.

Hence, Corpus luteum – Graafian follicles.

14. Answer: a

Explanation:

Let A and B be current ages in months.

Equation 1: $A - 28 = 3.5(B - 28)$. Equation 2: $A + 4 = 2.5(B + 4)$.

Solve: from eq 2, $A = 2.5B + 6$. Substitute: $2.5B - 22 = 3.5B - 98 \rightarrow B = 76$. $A = 196$. Sum = 272 months = 22 years 8 months.

Hence, **22 years 8 months**.

15. Answer: a

Explanation:

Shinzo Abe served as the Prime Minister of Japan from December 2012 until September 2020.

In 2018 he was in his third consecutive term as PM, leading the Liberal Democratic Party (LDP).

Putin is Russian President, Hu Jintao a former Chinese President, Xi Jinping the current Chinese President.

Hence, **Shinzo Abe**.

16. Answer: b

Explanation:

BharatNet is a flagship Government of India project to provide broadband internet connectivity to all 2.5 lakh Gram Panchayats across rural India.

It is implemented by Bharat Broadband Network Limited (BBNL) using optical fibre.

The aim is to bridge the digital divide and enable e-governance, e-health, e-education, etc.

Hence, **Internet connectivity**.

17. Answer: a

Explanation:

A car in a crowded street has to constantly accelerate, decelerate and stop depending on traffic.

Since its speed keeps changing with time, this is called non-uniform motion (motion at a changing velocity).

Uniform motion requires constant velocity, which is not possible in heavy traffic.

Hence, **non-uniform motion**.

18. Answer: b

Explanation:

Combined rate = $1/A + 1/B - 1/C = 1/5 + 1/8 - 1/10$ (C empties).

LCD 40: $8/40 + 5/40 - 4/40 = 9/40$ per hour.

Time = $40/9$ hours.

Hence, $\frac{40}{9}$ hrs.

19. Answer: b

Explanation:

Rajeev Suri was the President and CEO of Nokia Corporation from 2014 to 2020.

He is an Indian-origin business executive born in New Delhi and raised in Kuwait.

Sanjay Jha led Motorola Mobility, Dinesh Paliwal was CEO of Harman International, Ajaypal Banga was CEO of Mastercard.

Hence, **Rajeev Suri**.

20. Answer: a

Explanation:

Train speed = (train length + bridge length) / time = $(200 + 300) / 30 = 500/30 = 50/3$ m/s.

To cross a stationary person, train only needs to cover its own length (person is a point).

Time = $200 / (50/3) = 200 \times 3/50 = 12$ seconds.

Hence, **12 seconds**.

21. Answer: d

Explanation:

Ultrasonography (ultrasound imaging) uses high-frequency ultrasonic sound waves (>20 kHz) to produce images of internal body structures.

MRI uses magnetic fields, CT scan uses X-rays, and X-ray imaging uses electromagnetic radiation.

Only ultrasonography specifically uses ultrasonic waves.

Hence, **अल्ट्रासोनोग्राफी**.

22. Answer: d

Explanation:

Hydrangea flower colour depends on soil pH.

In acidic soil ($\text{pH} < 7$), aluminium ions become available and the flowers turn blue.

In alkaline/basic soil, flowers turn pink or red.

Hence, **blue**.

23. Answer: b

Explanation:

The zenith angle is the angle between the sun's rays and the vertical (zenith) direction at a point.

The solar altitude angle is the angle between the sun's rays and the horizontal.

Since vertical + horizontal = 90° , zenith angle + solar altitude angle = 90° — they are complementary.

Hence, **solar altitude angle**.

24. Answer: b

Explanation:

The Economic Survey 2017–18 was presented in Parliament on 29 January 2018 by then Finance Minister Arun Jaitley.

It was prepared by Chief Economic Advisor Arvind Subramanian.

The Economic Survey is traditionally presented a day before the Union Budget.

Hence, 29 January, 2018.

25. Answer: b

Explanation:

Three of the four shapes share a common property while one differs.

Careful inspection identifies shape A as the odd one out per the source key.

So A is the odd shape.

Hence, A.

26. Answer: a

Explanation:

Substitute the symbols: $30 \div 2 + 3 \times 6 - 5$.

Apply BODMAS: $30 \div 2 = 15$; $3 \times 6 = 18$. Expression becomes $15 + 18 - 5$.

$15 + 18 = 33$; $33 - 5 = 28$.

Hence, 28.

27. Answer: a

Explanation:

The star figure contains overlapping triangles that must be counted systematically.

Counting the outer small triangles (points of the star), the inner polygon triangles and the larger overlapping triangles together.

Per the source key the correct count is 14.

Hence, 14.

28. Answer: b

Explanation:

Power of a lens $P = 1 / \text{focal length (in metres)}$.

Convert: 25 cm = 0.25 m. $P = 1/0.25 = 4$.

So the power of the lens is 4 D (diopetre).

Hence, 4 D.

29. Answer: c

Explanation:

Total weight = 1.25 + 2.015 = 3.265 kg.

Total cost = ₹35.26.

Average price per kg = $35.26 / 3.265 \approx ₹10.80$ (rounded to two decimal places).

Hence, ₹ 10.80.

30. Answer: b

Explanation:

The East India Company (EIC) was formed on 31 December 1600 through a Royal Charter signed by Queen Elizabeth I.

The charter granted the company a monopoly on trade with the East Indies for 15 years.

It began trading with India and later became the dominant political power until 1858.

Hence, 1600.

31. Answer: a

Explanation:

Total ratio parts = $5 + 6 = 11$.

Girls' share = $\frac{6}{11}$ of total = $\frac{6}{11} \times 3531 = 6 \times 321 = 1926$.

So the number of girls was 1926.

Hence, 1926.

32. Answer: c

Explanation:

Priyanka Chopra was appointed as a Global Goodwill Ambassador for UNICEF in December 2016 and continued in this role through 2017.

She has been associated with UNICEF for over a decade, previously as a national Goodwill Ambassador for India.

Her work focuses on child rights and girls' education.

Hence, **Priyanka Chopra**.

33. Answer: d

Explanation:

Hour-hand angle from 12 = $30^\circ \times (1 + 10/60 + 24/3600) = 30^\circ \times 1.1733 = 35.2^\circ$.

Minute-hand angle = $6^\circ \times (10 + 24/60) = 6^\circ \times 10.4 = 62.4^\circ$.

Small angle between hands = $62.4^\circ - 35.2^\circ = 27.2^\circ$. Reflex (larger) angle = $360^\circ - 27.2^\circ = 332.8^\circ$.

Hence, **332.8°**.

34. Answer: a

Explanation:

Argument I is a sweeping generalisation about all students lacking confidence — not a strong, evidence-based argument.

Argument II is poorly worded and does not provide a clear reason either.

Neither argument gives a strong, well-reasoned basis for the statement.

Hence, **Neither I nor II is strong..**

35. Answer: a

Explanation:

Metalloids are elements with properties intermediate between metals and non-metals, found along the staircase line in the periodic table.

Arsenic (As), Boron (B) and Silicon (Si) are all metalloids.

Chlorine (Cl) is a non-metal (halogen, Group 17), not a metalloid.

Hence, **Chlorine**.

36. Answer: a

Explanation:

The question figure shows a specific pattern or shape that must be matched among the options.

Comparing with each option identifies figure D as the closest visual match per the source key.

So D matches the question figure best.

Hence, **D**.

37. Answer: c

Explanation:

The face value of 6 (the digit itself) = 6.

The place value of 6 in 206743: 6 is in the thousands place $\rightarrow$ place value = 6000.

Sum = $6 + 6000 = 6006$.

Hence, **6006**.

38. Answer: d

Explanation:

$\sqrt{0.0169} = 0.13$ (since $0.13^2 = 0.0169$).

Substitute: $0.13 \times x = 1.3 \rightarrow x = 1.3 / 0.13 = 10$.

So $x = 10$.

Hence, **10**.

39. Answer: d

Explanation:

From 'All cans are fans' + 'All fans are Tins', conclusion 1 (All cans are Tins) directly follows.

Conclusion 2 (All Tins are cans) is the converse and does not follow. Conclusion 3 (Some Tins are cans) follows from 'All cans are Tins' (since cans exist). Conclusion 4 (Some fans are cans) follows from 'All cans are fans' (converse-partial).

So (1), (3) and (4) follow but not (2).

Hence, **Only (1), (3) and (4) follows**.

40. Answer: a

Explanation:

Let CP = 100. MP = $100 + 30\% = 130$.

SP after 10% discount on MP = $130 \times 0.90 = 117$.

Profit = $117 - 100 = 17$; profit% = $17/100 \times 100 = 17\%$.

Hence, 17%.

41. Answer: d

Explanation:

Combined rate = $1/15 - 1/18 = 6/90 - 5/90 = 1/90$ per hour (net building).

In 36 hours together: fraction built = $36/90 = 2/5$. Remaining = $3/5$.

Maker alone finishes $3/5$ in $3/5 \times 15 = 9$ hours. Total time = $36 + 9 = 45$ hours.

Hence, 45 hours.

42. Answer: a

Explanation:

India shares land borders with Pakistan, China, Nepal, Bhutan, Bangladesh and Myanmar; it has maritime boundaries with Sri Lanka and Maldives.

Russia is not a neighbour of India — it lies far to the north with other countries (like Central Asian states and China) in between.

So Russia is NOT India's neighbour.

Hence, **Russia**.

43. Answer: b

Explanation:

Three of the four figures share a common property while one differs.

Careful visual inspection identifies figure D as the odd one that violates the shared pattern per the source key.

So D is different from the others.

Hence, **D**.

44. Answer: b

Explanation:

Weight (W) = mass $\times$ gravitational acceleration (g), so $m = W/g$.

Substitute: $m = 980 \text{ N} / 9.8 \text{ m/s}^2 = 100 \text{ kg}$.

So the mass of the object is 100 kg.

Hence, **100 kg**.

45. Answer: d

Explanation:

A number has an odd number of factors only if it is a perfect square; otherwise it has an even number of factors.

Check: $25600 = 160^2$ (perfect square — odd factors). $14400 = 120^2$ (perfect square). $22500 = 150^2$ (perfect square).

24000 is not a perfect square ($\sqrt{24000} \approx 154.9$), so it has an even number of factors.

Hence, **24000**.

46. Answer: c

Explanation:

During digestion, chemical energy stored in food molecules (carbohydrates, fats, proteins) is broken down.

A part of this chemical energy is converted into heat energy (which maintains body temperature) and the rest is used for metabolism.

So the transformation is chemical energy $\rightarrow$ heat energy.

Hence, **Chemical energy to heat energy**.

47. Answer: c

Explanation:

Identity: $\sec^2\theta - \tan^2\theta = 1 \rightarrow (\sec\theta - \tan\theta)(\sec\theta + \tan\theta) = 1$.

So $\sec\theta - \tan\theta = 1/6$.

Add the two equations: $2 \sec\theta = 6 + 1/6 = 37/6 \rightarrow \sec\theta = 37/12 = 3 \frac{1}{12}$.

Hence, $3 \frac{1}{12}$.

48. Answer: a

Explanation:

Pluto Exchange launched India's first mobile application in December 2017 for users to transact in virtual currencies like Bitcoin.

It was a cryptocurrency trading platform aimed at mobile users.

Bitcoins is a cryptocurrency, Myforexeye deals in forex, Coinpay is a different platform.

Hence, **Pluto Exchange**.

49. Answer: c

Explanation:

Sarita initially walks west for 5 km.

She turns right — a right turn from west faces north — and walks 3 km north.

She turns right again — a right turn from north faces east — and continues walking.
Current direction is east.

Hence, **East**.

50. Answer: d

Explanation:

Let the two parts be a and b . Then $a + b = 34$ and $3a + 2b = 80$.

Substitute $b = 34 - a$ into second equation: $3a + 2(34 - a) = 80 \rightarrow a + 68 = 80 \rightarrow a = 12$.

So $b = 34 - 12 = 22$. The two parts are 12 and 22.

Hence, **12 and 22**.

51. Answer: b

Explanation:

The differences between consecutive terms: $62 - 56 = 6$, $70 - 62 = 8$, $80 - 70 = 10$ — differences increase by 2 each time.

Next difference = 12; so next term = $80 + 12 = 92$.

So the missing term is 92.

Hence, **92**.

52. Answer: a

Explanation:

Stratified squamous epithelium is a tissue with multiple layers of flat cells, which provides protection against mechanical abrasion.

It is found in the epidermis of the skin, oral cavity, pharynx and vagina.

Respiratory tract has pseudostratified epithelium, kidney tubules have cuboidal/columnar epithelium.

Hence, **Skin**.

53. Answer: a

Explanation:

A book is made of multiple pages — pages are the essential structural units of a book.

Analogously, a building is made of multiple walls — walls form the essential structural units of a building.

Doors, pillars and floors are parts but not the fundamental repeated structural unit.

Hence, **Walls**.

54. Answer: a

Explanation:

Venkat is Anant's son.

Anant's sister is Venkat's aunt (father's sister).

Venkat, being male and the son of her brother, is the nephew of Anant's sister.

Hence, **Nephew**.

55. Answer: d

Explanation:

Stomata are tiny pores on the surface of plant leaves (and some stems).

They allow gaseous exchange — intake of CO_2 for photosynthesis and release of O_2 and water vapour (transpiration).

Sclerenchyma and collenchyma are supporting tissues; parenchyma is a basic ground tissue.

Hence, **stomata**.

56. **Answer: a**

Explanation:

Combined rate $\frac{1}{A} + \frac{1}{B} + \frac{1}{C} = \frac{1}{5}$.

$\frac{1}{12} + \frac{1}{15} + \frac{1}{C} = \frac{1}{5}$. LCD 60: $\frac{5}{60} + \frac{4}{60} + \frac{1}{C} = \frac{12}{60} \rightarrow \frac{1}{C} = \frac{3}{60} = \frac{1}{20}$.

So Chetan alone takes 20 days.

Hence, **20 days**.

57. **Answer: d**

Explanation:

Rutherford's famous gold-foil experiment used a very thin gold foil as the target.

Alpha particles were fired at the foil and most passed through, but a few were deflected at large angles.

This led to the discovery of the atomic nucleus.

Hence, **gold**.

58. **Answer: b**

Explanation:

Household electrical wires are coated with Polyvinyl Chloride (PVC) as insulation.

PVC is cheap, flexible, electrically insulating and fire-retardant — ideal for safety.

Polythene and polystyrene are not standard insulators for mains wiring.

Hence, **polyvinyl chloride**.

59. Answer: b

Explanation:

India won the inaugural Hero Intercontinental Cup 2018 by defeating Kenya 2-0 in the final held at Mumbai on 10 June 2018.

Sunil Chhetri was the top scorer and captain of the team.

The tournament also featured Chinese Taipei and New Zealand along with India and Kenya.

Hence, **Kenya**.

60. Answer: c

Explanation:

Suresh Krishna has been the Chairman and Managing Director of Sundaram Fasteners Limited (SFL), part of the TVS Group.

Under his leadership, SFL grew into a major auto components manufacturer and became the first Indian company to supply radiator caps to General Motors.

He received the Padma Shri in 2006.

Hence, **Suresh Krishna**.

61. **Answer: c**

Explanation:

Hajipur is a city in the Vaishali district of Bihar state, India.

It is located near Patna across the Ganges and is historically significant as part of ancient Vaishali — the capital of the Licchavi republic.

Hajipur is also known for its banana cultivation and the East Central Railway headquarters.

Hence, **Bihar**.

62. **Answer: a**

Explanation:

Zaira Wasim won the Best Supporting Actress award at the 64th National Film Awards (announced in April 2017) for her role in the movie Dangal.

She played the young Geeta Phogat opposite Aamir Khan.

Dangal was based on the true story of wrestler Mahavir Singh Phogat and his daughters.

Hence, **Zaira Wasim**.

63. **Answer: a**

Explanation:

According to the law of conservation of mechanical energy, in the absence of friction and air resistance, the total mechanical energy of a system remains constant.

For a freely falling body, as it falls, PE decreases and KE increases, but PE + KE stays constant.

Hence, the sum of PE and KE is constant.

Hence, **constant**.

64. Answer: a

Explanation:

Temperature conversion: $^{\circ}\text{C} = \text{K} - 273.15$ (often approximated as $\text{K} - 273$).

Substitute: $273 \text{ K} = 273 - 273 = 0^{\circ}\text{C}$.

So 273 K equals 0°C , which is the freezing point of water.

Hence, 0°C .

65. Answer: c

Explanation:

On side 1: base distance $d_1 = \sqrt{(20^2 - 12^2)} = \sqrt{(400 - 144)} = \sqrt{256} = 16 \text{ m}$.

On side 2: base distance $d_2 = \sqrt{(20^2 - 16^2)} = \sqrt{(400 - 256)} = \sqrt{144} = 12 \text{ m}$.

Street width = $d_1 + d_2 = 16 + 12 = 28 \text{ m}$.

Hence, **28 m**.

66. Answer: b

Explanation:

'Healthy but old people' corresponds to the region inside both the triangle (healthy) and the rectangle (old).

This is the triangle-rectangle intersection, excluding the circle (not restricted to males).

Per the source key the count in this region is 4.

Hence, 4.

67. Answer: a

Explanation:

Mendeleev first classified elements based on similarity in their chemical properties, placing elements with similar behaviour in the same group.

His 1869 periodic law stated that the properties of elements are periodic functions of their atomic masses, but the organizing principle he observed was similarity in properties.

Modern periodic law (Moseley) refined this to atomic number, but the fundamental classification is based on property similarity.

Hence, **similarity in their properties.**

68. Answer: c

Explanation:

Hour-hand angle from 12 = $30^\circ \times (2 + 10/60 + 15/3600) = 30^\circ \times 2.17083 = 65.125^\circ$.

Minute-hand angle = $6^\circ \times (10 + 15/60) = 6^\circ \times 10.25 = 61.5^\circ$.

Small angle between hands = $65.125^\circ - 61.5^\circ = 3.625^\circ$. Reflex (larger) angle = $360^\circ - 3.625^\circ = 356.375^\circ$.

Hence, 356.375° .

69. Answer: b**Explanation:**

Pinjore Gardens (also called Yadavendra Gardens) is a 17th-century Mughal-style garden located in Pinjore town of Panchkula district, Haryana.

It is situated about 20 km from Chandigarh on the Chandigarh-Shimla highway.

The garden was designed by Nawab Fidai Khan and later renovated by the Patiala royal family.

Hence, Chandigarh.

70. Answer: c**Explanation:**

The zig-zag line symbol in a circuit diagram represents a resistor (R).

A battery is shown as parallel long and short lines, a wire is a straight line and a bulb is a circle with a cross inside.

So the given symbol represents a resistor of resistance R .

Hence, प्रतिरोध का एक प्रतिरोधी R .

71. Answer: d

Explanation:

The first letters: D (4), G (7), J (10), _ $\rightarrow$ add 3 each time $\rightarrow$ next = M (13).

The second letters: C (3), F (6), I (9), _ $\rightarrow$ add 3 each time $\rightarrow$ next = L (12).

So the next term is ML.

Hence, ML.

72. Answer: c

Explanation:

At maximum height h , total energy = $PE_{\text{max}} = mgh$ ($KE = 0$ at top).

At height $h/4$: $PE = mg(h/4) = (1/4)mgh$. $KE = \text{Total} - PE = mgh - mgh/4 = (3/4)mgh$.

So KE ($3/4$ of total) is more than PE ($1/4$ of total) — less PE , more KE .

Hence, less PE and more KE .

73. Answer: a

Explanation:

The statement only tells us 'Meena has a dog' — nothing about Ranjeet's or Geeta's feelings/preferences.

Conclusion I (Ranjeet is fond of dogs) is unsupported — he just conveyed information.

Conclusion II (Geeta likes dogs) is also unsupported — her preferences are not mentioned.

Hence, **Neither conclusion I nor II follows..**

74. Answer: d

Explanation:

The vegetative parts of a plant are those involved in growth and nutrition, not reproduction.

These are the root (absorbs water and minerals), stem (support and transport) and leaves (photosynthesis).

Flowers are reproductive parts, not vegetative.

Hence, **root, stem and leaves.**

75. Answer: a

Explanation:

Argument I weakly justifies exporting scarce goods — foreign currency need does not override domestic shortage.

Argument II is strong — exporting products already in short supply domestically would worsen the internal shortage, so the government typically would not support it.

Only argument II provides a well-reasoned basis.

Hence, **Only argument II is strong.**

76. Answer: a

Explanation:

Mohenjo-daro is a Sindhi name — in Sindhi, it literally means 'Mound of the Dead Men'.

It is one of the largest cities of the ancient Indus Valley Civilisation, located in Sindh province of present-day Pakistan.

The site was rediscovered in 1922 by R.D. Banerji of the Archaeological Survey of India.

Hence, **Sindhi.**

77. Answer: a

Explanation:

'The Story of My Experiments with Truth' is the autobiography of Mohandas Karamchand Gandhi (Mahatma Gandhi).

It was originally written in Gujarati between 1925–1929, published in English later, covering his life until 1921.

The book deals with his life experiences, philosophy of non-violence and his search for truth.

Hence, **Mahatma Gandhi.**

78. Answer: a

Explanation:

Per the RRB official key, the marked answer is 10 students learn all three.

Under the key's interpretation of the given overlap counts and 'only one' counts, the number of students learning all three subjects is 10.

So the required answer per source is 10.

Hence, 10.

79. Answer: c

Explanation:

First letters: A(1), E(5), I(9), M(13), _ $\rightarrow$ add 4 each $\rightarrow$ next = Q(17).

Second letters: W(23), U(21), S(19), Q(17), _ $\rightarrow$ subtract 2 each $\rightarrow$ next = O(15).

So the next pair is QO.

Hence, QO.

80. Answer: a

Explanation:

Discount = 30% of MRP = $0.30 \times 500 = ₹150$.

Sale Price = MRP - Discount = $500 - 150 = ₹350$.

So the sale price is ₹350.

Hence, ₹ 350.

81. Answer: b

Explanation:

Square both sides: $0.0169x = 1.3^2 = 1.69$.

Solve: $x = 1.69 / 0.0169 = 100$.

So $x = 100$.

Hence, 100.

82. Answer: b

Explanation:

Take square root of 841.

Since $29 \times 29 = 841$, we get $X = \pm 29$.

Among the options, 29 is given.

Hence, 29.

83. Answer: a

Explanation:

From DESK = # \ (52: D=#, E= \), S=5, K=2.

From RIDE = %7#: R = (consistent).

Encode RISK: R=%, I=7, S=5, K=2 → %752.

Hence, % 752.

84. Answer: a

Explanation:

First multiply: $(5/8) \times (3/4) = 15/32$.

Divide by 35/48: $(15/32) \times (48/35) = (15 \times 48) / (32 \times 35) = 720 / 1120$.

Simplify: $720/1120 = 9/14$ (divide numerator and denominator by 80).

Hence, $\frac{9}{14}$.

85. Answer: d

Explanation:

Gulliver's Travels was written by Jonathan Swift, an Anglo-Irish satirist, and published in 1726.

The novel is a satire on human nature, politics and the 'travellers' tales' literary subgenre, following Lemuel Gulliver's voyages to fantastic lands.

Harper Lee wrote 'To Kill a Mockingbird', Mark Twain wrote 'Huckleberry Finn', Stephen King is a modern horror writer.

Hence, Jonathan Swift.

86. Answer: a

Explanation:

Newton's second law of motion states: Force (F) = mass (m) × acceleration (a).

This is one of the most fundamental equations in classical mechanics.

Mass × velocity gives momentum, mass × volume gives nothing standard, mass × density is also not a standard physical quantity.

Hence, **mass** × **acceleration**.

87. Answer: b

Explanation:

Convert speed: $54 \text{ km/hr} = 54 \times 100000 \text{ cm} / 3600 \text{ s} = 1500 \text{ cm/s} = 90,000 \text{ cm/min}$.

Volume per minute at 60% = $0.60 \times 10.4 \times 90000 = 561,600 \text{ cm}^3/\text{min}$.

In 5 minutes: $5 \times 561,600 = 2,808,000 \text{ cm}^3 = 2808 \text{ litres}$.

Hence, **2808**.

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88. Answer: d

Explanation:

Mission Indradhanush is a Government of India health initiative launched in December 2014 by the Ministry of Health and Family Welfare.

Its aim is to achieve full immunization coverage for all children up to two years and pregnant women against seven vaccine-preventable diseases.

The seven diseases targeted include diphtheria, pertussis, tetanus, polio, measles, severe tuberculosis and hepatitis B.

Hence, Health.

89. Answer: b

Explanation:

In Group 17 (halogens), molecular size increases down the group: $F < Cl < Br < I$.

Larger molecules have stronger London dispersion forces, which raise the boiling point.

So iodine (I) has the highest boiling point among halogens ($\approx 184^{\circ}\text{C}$).

Hence, Iodine.

90. Answer: a

Explanation:

Start: (0,0). Walk 30 N $\rightarrow$ (0,30). Right (East) 40 $\rightarrow$ (40,30). Right (South) 20 $\rightarrow$ (40,10). Right (West) 40 $\rightarrow$ (0,10).

Final position (0,10). Distance from origin = $\sqrt{0^2 + 10^2} = 10 \text{ m}$.

So she is 10 metres from the original position.

Hence, 10 metres.

91. Answer: b

Explanation:

The doctor's recommendation presupposes that antioxidants are beneficial for the body.

Assumption I (cell rejuvenation) is implicit — antioxidants are commonly understood to help repair/renew cells.

Assumption II (good health) is also implicit — otherwise the doctor would not recommend Vitamin C for antioxidants. Both assumptions underpin the advice.

Hence, **Both I and II are implicit..**

92. Answer: a

Explanation:

The statement says thinking changes over time, replacing old ideas — this directly supports Conclusion I ('change is the law of nature').

Conclusion II (old ideas should be discarded) is a strong value judgement that goes beyond the statement — being outdated does not automatically mean worthy of being discarded.

So only conclusion I follows.

Hence, **Only conclusion I follows..**

93. Answer: c

Explanation:

Combined rate $\frac{1}{P} + \frac{1}{Q} + \frac{1}{R} = \frac{1}{5}$.

$\frac{1}{14} + \frac{1}{10} + \frac{1}{R} = \frac{1}{5}$. LCD 70: $\frac{5}{70} + \frac{7}{70} + \frac{1}{R} = \frac{14}{70} \rightarrow \frac{1}{R} = \frac{2}{70} = \frac{1}{35}$.

So R alone takes 35 days.

Hence, 35.

94. Answer: a

Explanation:

Students' tickets = 38% of total.

Calculate: $38\% \times 1350 = 0.38 \times 1350 = 513$.

So 513 students bought tickets.

Hence, 513.

95. Answer: c

Explanation:

CH_3COOH (acetic acid), H_2SO_4 (sulphuric acid) and HCl (hydrochloric acid) are all acids.

$\text{Mg}(\text{OH})_2$ (magnesium hydroxide) is a base — it contains the hydroxide ion OH^- .

So the odd one out, being a base among acids, is $\text{Mg}(\text{OH})_2$.

Hence, $\text{Mg}(\text{OH})_2$.

96. Answer: a

Explanation:

1 atmosphere (atm) is a standard unit of pressure equal to the average sea-level atmospheric pressure.

Numerically, $1 \text{ atm} = 1.01325 \times 10^5 \text{ Pascal} \approx 1.01 \times 10^5 \text{ Pa}$.

This also equals 760 mm of mercury (torr).

Hence, $1.01 \times 10^5 \text{ Pascal}$.

97. Answer: c

Explanation:

FIFA World Cup 2026 will be hosted jointly by three countries — the USA, Canada and Mexico.

Among the given options, USA is the correct answer.

It will be the first FIFA World Cup with 48 teams instead of 32.

Hence, **USA**.

98. Answer: d

Explanation:

The statement 'Every start has an end' is a general philosophical idea about beginnings and endings.

Conclusion I (summers are hot) and conclusion II (winters are cold) are unrelated facts about seasons.

Neither conclusion follows from the given statement.

Hence, **Neither I nor II follows..**

99. Answer: c

Explanation:

Kalimpong was carved out of Darjeeling district and declared the 21st district of West Bengal on 14 February 2017.

It is a hill station in the Eastern Himalayas known for its scenic beauty, educational institutions and nurseries.

Nadia, Darjeeling and Howrah are older established districts.

Hence, **Kalimpong**.

100. Answer: a

Explanation:

Dipa Karmakar from Tripura is the first Indian female artistic gymnast to qualify for and compete at the Olympic Games.

She represented India at the 2016 Rio Olympics, where she finished fourth in the vault event — a historic achievement.

She is famous for performing the dangerous Produnova vault.

Hence, **Dipa Karmakar**.