



Flexi Mock CAT - 12 (2020)

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Qs Analysis (QsAnalysis.jsp?sid=aaabxYtlqFsLahrNu3nExThu Feb 11 22:11:45 IST
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Solutions (Solution.jsp?sid=aaabxYtlqFsLahrNu3nExThu Feb 11 22:11:45 IST
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Bookmarks (Bookmarks.jsp?sid=aaabxYtlqFsLahrNu3nExThu Feb 11 22:11:45 IST
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VARC

LRDI

QA

Sec 1

Direction for questions (1-4): Read the given passage and answer the questions that follow.

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The fly was so small that it didn't offer the least resistance to the pressure of my finger. Compliantly, it transformed itself into a dark smudge. Not a gory or bloody smudge; not one with the least detail or variation – not to my naked eye, anyway. Just a small, uniform, rather faint mark.

Now, I'm not a biologist, but I know that a fly is an animal, and more specifically, an insect. As such, it has (or had) wings, legs, eyes, antenna and a host of internal organs. Those parts are in turn made of cells, each one of which is hugely complex. And in those cells, among many other things, are – or were – the fly's genes, which in turn embody an astonishing intricacy and an ancient, multi-million-year history, while in the fly's gut would have been countless bacteria with their own genes, their own goals. Worlds within worlds, now squigged together into a single dark smudge that I am already finding hard to pinpoint among the scratches and coffee rings. A history of life spread out before me, if only I were able to read it.

At this point, I guess that readers will be dividing into two parties. One party, probably the majority, will be thinking, 'Get over it, it's a fly.' This, it seems to me, is a very reasonable position. Flies die in large numbers all the time – some, indeed, at my hand, whether I intend it or not (and I sometimes do). And in the summer evenings, when I sit on our terrace and watch swifts in their spectacle of swooping and screeching, this beautiful display is, of course, at the same time an orgy of insect death.

The other party of readers, probably the minority, will be horrified at my casual killing of this delicate life-form. They will be appalled at the waste and stupidity of my carelessness. To them, I must be an oaf; at best ignorant, at worst malevolent. And this, it seems to me, is also a very reasonable position. Even though I habitually write – sometimes about complex subjects – it is certain that with one mistimed finger-swipe I destroyed complexity and beauty many orders of magnitude greater than any I will ever create.

Thus, it seems to me quite reasonable to think that the death of the fly is entirely insignificant and that it is at the same time a kind of catastrophe. To entertain such contradictions is always uncomfortable, but in this case the dissonance echoes far and wide, bouncing off countless other decisions about what to buy, what to eat – what to kill; highlighting the inconsistencies in our philosophies, our attempts to make sense of our place in the world and our relations to our co inhabitants on Earth. The reality is that we do not know what to think about death: not that of a fly, or of a dog or a pig, or of ourselves.

Which is a problem, because nature is a non-stop party of death. For example, I regularly take my children to a large park with a series of ponds, where in spring we look for frogspawn. Each batch contains many hundreds, even thousands of eggs. The next time we visit, the pond will be full of tadpoles. But the time after that, there will be many fewer. Those we find are the few survivors, whose numbers will be thinned still more before any get as far as restarting the cycle with their own spawn.

Q.1 [11594329]

The main reason for the author of the passage to introduce the example of the fly is to

-
- 1 ☐ talk about why even a fly is an important insect, with a multi-million year history.
-
- 2 ☐ introduce and discuss the concept of death in general, starting with that of a fly.
-
- 3 ☐ show how even the killing of a fly divides readers into two equal groups.
-
- 4 ☐ illustrate and compare the killing of flies with that of frogspawn and tadpoles.
-

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Q.2 [11594329]

The complexity and beauty mentioned in the passage refers to

1 ☐ the beauty of the complex subjects that the author sometimes writes about which are mentioned in the passage.

2 ☐ the beautiful display of the swooping and screeching of swifts which is also an orgy of insect death.

3 ☐ worlds within worlds inside the fly which contain organs, cells, genes and bacteria.

4 ☐ the conversion of the fly into a dark smudge without the least resistance from the fly.



 Answer key/Solution

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Q.3 [11594329]

According to the author of the passage, our not knowing what to think about death

1 ☐ is a good thing, because the death of a fly is entirely insignificant.

2 ☐ is a bad thing, because death is catastrophic, even that of a fly.

3 ☐ is an issue because of the non-stop occurrence of death in nature.

4 ☐ is not a bad thing because a party of death is never bad.

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Q.4 [11594329]

On reading the passage about the two parties of readers mentioned in the passage, it becomes clear that

- 1 ☐ one is quite likely to be reasonable, while the other is quite possibly not.
- 2 ☐ one is likely to have majority, while the other doesn't.
- 3 ☐ one is quite possibly correct in its thinking and approach, while the other is not.
- 4 ☐ one is favoured by the author due to its thinking, while the other is not.

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Direction for questions (5-9): Read the given passage and answer the questions that follow.

Following the success of Tayari Jones's 2019 Women's prize winner *An American Marriage*, her 2011 third novel *Silver Sparrow* is published for the first time in the UK. It's a tale of two sisters: part Bildungsroman, part homage to 1980s Atlanta. "My father, James Witherspoon, is a bigamist," Dana Yarboro tells us in the novel's opening line, before she narrates what it was like to grow up as the secret daughter, given "second pick for everything", consoled only by the slim satisfaction of knowing all about her father's other family while her sister Chaurisse knows nothing about her.

A chance encounter between the two girls at a science fair, wearing identical rabbit-fur coats (gifts from their "double-duty daddy"), knocks Witherspoon's two families into each other's paths. Chaurisse is drawn to Dana, whom she sees as "silver" – one of those "girls with looks and hair" who "move in different circles than ones like me" – but little does she know that Dana is obsessed with her. Every interaction is undercut by Dana's ulterior motives: Chaurisse tells Dana her father smokes two packs a day and she responds, "Mine too"; when Dana visits Chaurisse's house, she quizzes her on where her father sits when they eat dinner. Her coming of age consists in large part of inserting herself further into her unwitting sister's life.

At the midpoint, the novel splits into two and events are narrated from Chaurisse's point of view. We see that although the girls have a father in common, what really draws them together is their deep, overlapping loneliness. Far from being idyllic, as Dana imagines, Chaurisse's life has been burdened with its own share of pain and bewilderment as a result of being born to a woman who got pregnant at the age of 14, probably as a result of a rape.

While the novel is driven by the question of whether the two sisters can ever accept the truth of one another, it is also propelled by shrewd observations about how they survive the unsteady terrain of young womanhood, that time when "a man looking at you can make you feel chopped into pieces". This book is as moving, intimate and wise as *An American Marriage* on the topics of marriage, family and womanhood, and deserves similar acclaim.

Q.5 [11594329]

Which of the following is not true about the novel *Silver Sparrows*?

- 1 ☐ The novel has been narrated from the points of view of two characters.
- 2 ☐ The novelist has made some sharp observations about young women and the way they survive on their journey to adulthood.
- 3 ☐ The plot of the novel is set in Atlanta during the 1980s.
- 4 ☐ The two sisters at the centre of the novel's plot are unaware of each other's existence until they reach adulthood.

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Q.6 [11594329]

In the first paragraph, why does the author use the phrase “slim satisfaction” to describe Dana’s knowledge of Chaurisse’s existence?

1 ☐ To point out that Dana is relieved that her parents have not lied to her.

2 ☐ To emphasise the bitter solace that Dana gets from being the one with the greater knowledge of the situation as compared to her half-sister Chaurisse, against the resentment she carries for being her father’s secret child and receiving less of everything than Chaurisse.

3 ☐ To indicate that the lonely young Dana derives a sense of silent companionship from her half-sister Chaurisse.

4 ☐ To point out the satisfaction Dana experiences when she finds out that her father got her and Chaurisse identical fur coats.

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Q.7 [11594329]

Which one of the following accurately summarizes the last paragraph?

- 1 ☐ The novel deserves its acclaim because it movingly captures the universal themes of marriage and family
- 2 ☐ The novel deserves its acclaim because it is a coming-of-age story of two unique young women.
- 3 ☐ The novel calibrates the story of two distinct and unique characters with the larger and universal themes of precarious female adolescence, marriage and family.
- 4 ☐ The novel's penetrating observations about young women and the way they navigate adolescence is the reason for its well-deserved acclaim.



Answer key/Solution

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Q.8 [11594329]

Which one of the following cannot be inferred about Chaurisse?

- 1 ☐ Her life had its share of anguish and distress; it just happened to be different from Dana's as she was not kept a secret by their father.
- 2 ☐ She was aware of her father's dual life, but she hid that knowledge from everyone.
- 3 ☐ She was intensely lonely while growing up and this loneliness was one of the reasons which drew her towards Dana.
- 4 ☐ She thought of Dana as beautiful and felt strongly drawn to her because she thought of Dana's life and circle as completely different from her own.



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Q.9 [11594329]

Based on your understanding of the novel, which one of these explains the narrative choice of two different points of view:

- 1 ☐ The differing points of view depict how two different young women deal with similar problems.
- 2 ☐ The differing points of view serve to depict the differences as well as the similarities of the lives of the two sisters.
- 3 ☐ The differing points of view were chosen by Jones because she sympathised more with Chaurisse's character.

4 ○ The differing points of view were chosen by Jones because she wanted a stark depiction of the manipulative meddling by Dana in Chaurisse's life.

[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)

Direction for questions (10-13): Read the given passage and answer the questions that follow.

Every time you flip a light switch, you tap into a gigantic invisible web, the electrical grid. Somewhere, at the other end of the high-voltage transmission lines carrying power to your house, there's a power plant (likely burning coal or, increasingly, natural gas) churning out electricity to replace the electrons that you and everyone else are draining at that moment.

The amount of power in our grid at any one time is carefully maintained—too much or too little and things start to break. Grid operators make careful observations and predictions to determine how much electricity power plants should produce, minute by minute, hour by hour. But sometimes they're wrong, and a plant has to power up in a hurry to make up the difference.

Lucky for us, it's a big, interconnected system, so we rarely notice changes in the quality or quantity of electricity. Imagine the difference between stepping into a bucket of water versus stepping into the ocean. In a small system, any change in the balance between supply and demand is obvious — the bucket overflows. But because the grid is so big—ocean-like—fluctuations are usually imperceptible. Only when something goes very wrong do we notice, because the lights go out.

Renewable energy is less obedient than a coal- or gas-fired power plant—you can't just fire up a solar farm if demand spikes suddenly. Solar power peaks during the day, varies as clouds move across the sun, and disappears at night, while wind power is even less predictable. Too much of that kind of intermittency on the grid could make it more difficult to balance supply and demand, which could lead to more blackouts.

Storing energy is a safety valve. If you could dump extra energy somewhere, then draw from it when supply gets low again, you can power a whole lot more stuff with renewable energy, even when the sun isn't shining and the wind isn't blowing. What's more, the grid itself becomes more stable and efficient, as batteries would allow communities and regions to manage their own power supply. Our aging and overtaxed power infrastructure would go a lot further. Instead of installing new transmission lines in places where existing lines are near capacity, you could draw power during off-peak times and stash it in batteries until you need it.

Just like that, the bucket can behave a lot more like the ocean. That would mean—at least in theory—more distributed power generation and storage, more renewables, and less reliance on giant fossil-fueled power plants.

Q.10 [11594329]

It cannot be inferred from the passage that

-
- 1 ☐ non renewable energy sources are more obedient than renewable ones since they can be switched on and off at will to meet demand spikes.
-
- 2 ☐ safety valves ensure that the grid becomes more stable and efficient since power can be dumped when extra, and drawn when required.
-
- 3 ☐ a smaller grid would have more perceptible fluctuations than a larger one because in a large grid fluctuations are less perceptible.
-
- 4 ☐ The amount of power in the grid can be measured by grid operators.
-

 Answer key/Solution

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FeedBack

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Q.11 [11594329]

The thematic highlight of this passage is

-
- 1 ☐ to cover the differences between renewable and non-renewable energy and highlight how one is better than the other.
-
- 2 ☐ to highlight the drawbacks of having too many renewable sources on the grid since they create perceptible fluctuations in the grid.
-
- 3 ☐ to talk about ways to improve the grid, by using methods that help balance renewable and non-renewable sources in mix.
-
- 4 ☐ to talk about the advantages of batteries as a way of bringing about better stability in the grid and making better use of the power infrastructure.
-

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Q.12 [11594329]

Based on the passage, storing energy is a safety valve because

1 ☐ extra energy can be stored somewhere, and then used as required.

2 ☐ storing energies would allow communities to manage their own power supply.

3 ☐ it removes the dependence on non-renewable energy.

4 ☐ it is an inter-connected system that improves the quality of electricity.



 Answer key/Solution

Bookmark

FeedBack

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Q.13 [11594329]

All of the following are true in the context of the passage except:

- 1 ☐ The predictions made by grid operators regarding production requirements of electricity plants are not always accurate.
- 2 ☐ An electricity grid system operates like an ocean where minor fluctuations in quantity or quality are not usually noticed.
- 3 ☐ Though renewable energy sources are more challenging than non-renewable energy sources, they are the only feasible option for the future.
- 4 ☐ In the realm of renewable energy sources, wind power is less predictable than solar power.

 Answer key/Solution

Bookmark

FeedBack

Direction for questions (14-18): Read the given passage and answer the questions that follow.

The COVID-19 pandemic has forced us into necessary isolation. Many of us are spending anxious hours sitting inside our homes and surfing social media for further updates. We are surrounded by a mountain of anxiety. Amidst all-pervasive gloom, I couldn't help notice the steadfast outpouring of music on social media platforms. Many of the songs posted are new compositions specific to the situation. While most of these are indeed rib-tickling and perhaps merit no serious artistic attention, we ought not to dismiss this phenomenon. It perhaps reinforces the idea that tragedy invariably leads to comedy.

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Q.14 [11594329]

What is the author trying to convey by the last paragraph?

-
- 1 ☐ That humans are so vulnerable in distressing times that they cling to anything that serves as a distraction.
-
- 2 ☐ That humans have always tried to combat catastrophic situations through creative outlets such as music.
-
- 3 ☐ That music is the only means to mass connect in these times of isolation and anxiety.
-
- 4 ☐ That music probable acts as a anxiety-reliever, effective message disseminator and a means to connect during these trying times.
-

[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)

Direction for questions (14-18): Read the given passage and answer the questions that follow.

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Q.15 [11594329]

Which of the following is the author most likely to agree with except?

-
- 1 ☐ Bhojpuri music lyrics developed for corona are vulgar and obscene.
-
- 2 ☐ According to the author, most of the music developed in this corona period is has limited utility.
-
- 3 ☐ The author believes that the quality of contemporary Hindi music is abysmal.
-
- 4 ☐ Most of the music developed during these times will remain popular in the future as well.
-

[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)

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Q.16 [11594329]

The author presents the argument in the passage by:

-
- 1 ☐ Introducing an implicit premise and defending it subsequently.
-
- 2 ☐ Introducing a unique development and presenting ideas on why it has utility.
-
- 3 ☐ Introducing a unique development and asking questions about it.
-
- 4 ☐ Introducing the subject matter and documenting its evolution.
-



 Answer key/Solution

Bookmark

FeedBack

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Q.17 [11594329]

Which of the following can be a suitable title for the passage?


1 ☐ Go Corona

2 ☐ The role of music in healing

3 ☐ Singing the corona tune

4 ☐ Creativity in trying times



 Answer key/Solution

Bookmark

FeedBack

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Q.18 [11594329]

The passage is most likely an extract from a:

1 ☐ Music magazine

2 ☐ Newspaper editorial

3 ☐ Newspaper self-help column

4 ☐ Newspaper report



Answer key/Solution

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Directions for question (19): The four sentences (labelled 1, 2, 3, and 4) given in this question, when properly sequenced, form a coherent paragraph. Decide on the proper order for the sentences and key in this sequence of four numbers as your answer.

Q.19 [11594329]

1. New brain-machine interfaces will improve our memory and cognition, extend our senses, and confer direct control over an array of semi-intelligent gadgets.
2. Genetic and epigenetic modification will allow us to change our physical appearance and capabilities, as well as to tweak some of the more intangible aspects of our being such as emotion, creativity or sociability.
3. Within the lifetimes of most children today, bio-enhancement is likely to become a basic feature of human society.
4. Personalized pharmaceuticals will enable us to modify our bodies and minds in powerful and precise ways, with far fewer side-effects than today's drugs.



Answer key/Solution

Bookmark

FeedBack

Directions for question (20): The four sentences (labelled 1, 2, 3, and 4) given in this question, when properly sequenced, form a coherent paragraph. Decide on the proper order for the sentences and key in this sequence of four numbers as your answer.

Q.20 [11594329]

1. There is also what I call 'the big-picture defense', claiming that evil only appears as such from our limited perspectives.
2. Others have argued that certain kinds of moral goodness – compassion, for instance – are not possible in a world without evil, and the value of these types of goodness outweighs the evils on which their existence depends.
3. There is the argument of free will, attributing evil not to God but to humanity's misuse of its own freedom.
4. Many solutions to the problem of evil – called 'theodicies' – have been proposed.

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Directions for question (21): The passage given below is followed by four summaries. Choose the option that best captures the author's position.

Q.21 [11594329]

Last night, most of us went to the safety and comfort of our beds before drifting off to a night's sleep. For some, this was the last conscious action before an episode of sleepwalking. Recent research from Stanford University shows that up to 4 per cent of adults might have had such an experience. In fact, sleepwalking is on the rise, in part due to increased use of pharmacologically based sleep aids – notably Ambien. Often, the episodes are harmless. Sometimes, of course, sleepwalking is dangerous. Somnambulists are in an irrational state during which they could harm themselves or others. Patient committed the act – if that's the right word – despite an agreeable relationship with the victim and a lack of motive.

- 1 ☐ Pharmacological sleeping aids are seminal in worsening the sound sleep of the sleepwalking patient and the recent research from the Stanford University unveils the apparently dangerous effects of somnambulism where the patient may either get creative or harm himself as well as others.
- 2 ☐ Pharmacological sleeping aids are seminal in worsening the aftermath of the sleepwalking patient and the recent research from the Stanford University unveils the apparently dangerous effects of somnambulism where the patient may either get creative or harm himself as well as others fatally.
- 3 ☐ Pharmacological sleeping aids are seminal in worsening the aftermath of the sleepwalking patient and the recent research from the Stanford University unveils the apparently dangerous effects of somnambulism where the patient may either get creative or harm himself as well as others.
- 4 ☐ Pharmacological sleeping aids are seminal in alleviating the aftermath of the sleepwalking patient and the recent research from the Stanford University unveils the apparently dangerous effects of somnambulism where the patient may either get creative or harm himself as well as others fatally.

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Directions for question (22): Five sentences related to a topic are given below. Four of them can be put together to form a meaningful and coherent short paragraph. Identify the odd one out.

Q.22 [11594329]

1. Well I remember a girl, but I don't remember her specific features, and just a blurred face.
2. This was Misha speaking about his sister who was shot in front of him by the Nazis when he was just four years old.
3. After her execution, an 'anti-Semitic priest' ran up to the Nazi officers and told them not to shoot the remaining Jews who were awaiting a bullet.
4. Palestine's Jews had no illusions about what to expect from German occupation.
5. 'They used to ask me if I remembered her... I don't.

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Directions for question (23): Five sentences related to a topic are given below. Four of them can be put together to form a meaningful and coherent short paragraph. Identify the odd one out.

Q.23 [11594329]

1. If they probe any further, I tell them that I work with the great apes at Leipzig zoo.
2. I get apprehensive whenever someone asks me about my job.
3. Apes are humanity's closest living relatives.
4. I'm a philosopher who works on the question of how language evolved, I reply.
5. But some people, I've discovered, have big problems with zoos; and plenty of philosophers and primatologists agree with them.

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Q.24 [11594329]

Directions for question (24): The passage given below is followed by four summaries. Choose the option that best captures the author's position.

There were many rivals to the Serapis-Isis religion. Prominent among these was Mithraism. Both these religions, and the same is true of many other of the numerous parallel cults that sought the allegiance of the slaves and citizens under the earlier Roman emperors, are personal religions. They aim at personal salvation and personal immortality. The older religions were not personal like that; they were social. The older fashion of divinity was god or goddess of the city first or of the state, and only secondarily of the individual. The sacrifices were a public and not a private function. They concerned collective practical needs in this world in which we live.

- 1 ☐ As opposed to the older religions, Serapis Isis and Mithraism are personal religions which aim at personal salvation and personal immortality.
- 2 ☐ In the older religions, the divine bodies were considered of the state first and then of the individual while the cults under Roman emperors that sought devotion of the masses were personal.
- 3 ☐ The older religions were social in nature and were concerned with activities taking place at public level while the comparatively new religions like Mithraism and Serapis Isis were focused on personal growth and salvation.
- 4 ☐ The religions older to Serapis Isis and Mithraism were societal, requiring public sacrifices and solving societal needs.

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Directions for question (25): Five sentences related to a topic are given below. Four of them can be put together to form a meaningful and coherent short paragraph. Identify the odd one out.

Q.25 [11594329]

1. Not only is God the creator and ruler of the things and beings within those two realms, but He is also the creator of the realms themselves.
2. The philosopher Gottfried Leibniz's simple solution was to argue in 1710 that this world is necessarily the best of all possible worlds.
3. Because He is a loving God, the one He chooses to create is surely the 'best of all possible worlds'.
4. Leibniz depicts God assessing in His infinite mind all the various possible worlds that He could create.
5. His argument suggests that it is ultimately meaningless to complain about this evil or that injustice; because this is the best of all possible worlds.

[✕](#)

[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)**Q.26 [11594329]**

Directions for question (26): The passage given below is followed by four summaries. Choose the option that best captures the author's position.

Peace and harmony between the sexes and individuals does not necessarily depend on a superficial equalization of human beings; nor does it call for the elimination of individual traits or peculiarities. The problem that confronts us to-day, and which the nearest future is to solve, is how to be oneself, and yet in oneness with others, to feel deeply with all human beings and still retain one's own innate qualities. This seems to me the basis upon which the mass and the individual, the true democrat and the true individuality, man and woman can meet without antagonism and opposition. The motto should not be forgive one another; it should be, understand one another. The oft-quoted sentence of Mme. de Stael: "To understand everything means to forgive everything," has never particularly appealed to me; it has the odour of the confessional; to forgive one's fellow being conveys the idea of pharisaical superiority. To understand one's fellow being suffices.

- 1 ☐ Understanding and not forgiving each other is important to maintain peace in society.
- 2 ☐ Discord arises among individuals and between sexes due to their antagonism towards each other, and this in turn arises because of their inability to understand and forgive each other.
- 3 ☐ If we want harmony to exist among individuals, we need to develop in us the ability to be one with all human beings.
- 4 ☐ Amity among individuals is dependent on their ability to be understand one another while retaining their own personal characteristics and qualities; it doesn't require one to be rectitudinous.

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Sec 2

Directions for questions 27 to 30: Answer the questions on the basis of the information given below.

Jyoti, prepared an online test for students of her 5 batches – A, B, C, D, and E. For this, she prepared 6 questions - p, q, r, s, t, and u and created 5 tests, one for each batch, using these 6 questions. She ensured that each of the 5 tests had an equal number of questions. Further, no two tests had the same set of questions. It is also known that:

- (i) Questions 'p' and 't' are never in the same test.
- (ii) Whenever question 'r' is there in a test, then question 's' is always there in the same test and vice versa.
- (iii) No question appeared in more than 3 tests and each question appeared in more than 1 test.
- (iv) Neither in test for batch A nor in test for batch C was there question 'q'.
- (v) Tests for batch A and batch D had question 'p' only in common; while tests for batch C and batch E had question 't' only in common.

Q.27 [11594329]

Which of the following question definitely appeared in three different tests?

1 ☐ p

2 ☐ t

3 ☐ q

4 ☐ r

 Answer key/Solution

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Directions for questions 27 to 30: Answer the questions on the basis of the information given below.

Jyoti, prepared an online test for students of her 5 batches – A, B, C, D, and E. For this, she prepared 6 questions - p, q, r, s, t, and u and created 5 tests, one for each batch, using these 6 questions. She ensured that each of the 5 tests had an equal number of questions. Further, no two tests had the same set of questions. It is also known that:

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- (iii) No question appeared in more than 3 tests and each question appeared in more than 1 test.
- (iv) Neither in test for batch A nor in test for batch C was there question 'q'.
- (v) Tests for batch A and batch D had question 'p' only in common; while tests for batch C and batch E had question 't' only in common.

Q.28 [11594329]

How many questions were common in the test for batch A and the test for batch C?

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Directions for questions 27 to 30: Answer the questions on the basis of the information given below.

Jyoti, prepared an online test for students of her 5 batches – A, B, C, D, and E. For this, she prepared 6 questions - p, q, r, s, t, and u and created 5 tests, one for each batch, using these 6 questions. She ensured that each of the 5 tests had an equal number of questions. Further, no two tests had the same set of questions. It is also known that:

- (i) Questions 'p' and 't' are never in the same test.
- (ii) Whenever question 'r' is there in a test, then question 's' is always there in the same test and vice versa.
- (iii) No question appeared in more than 3 tests and each question appeared in more than 1 test.
- (iv) Neither in test for batch A nor in test for batch C was there question 'q'.
- (v) Tests for batch A and batch D had question 'p' only in common; while tests for batch C and batch E had question 't' only in common.

Q.29 [11594329]

Which of the following question definitely appeared in test for batch B?

1 ☐ q

2 ☐ u

3 ☐ s

4 ☐ t

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Directions for questions 27 to 30: Answer the questions on the basis of the information given below.

Jyoti, prepared an online test for students of her 5 batches – A, B, C, D, and E. For this, she prepared 6 questions - p, q, r, s, t, and u and created 5 tests, one for each batch, using these 6 questions. She ensured that each of the 5 tests had an equal number of questions. Further, no two tests had the same set of questions. It is also known that:

- (i) Questions 'p' and 't' are never in the same test.
- (ii) Whenever question 'r' is there in a test, then question 's' is always there in the same test and vice versa.
- (iii) No question appeared in more than 3 tests and each question appeared in more than 1 test.
- (iv) Neither in test for batch A nor in test for batch C was there question 'q'.
- (v) Tests for batch A and batch D had question 'p' only in common; while tests for batch C and batch E had question 't' only in common.

Q.30 [11594329]

Which of the following question is not present in test for batch A but is present in the test for batch E?

1 ☐ p

2 ☐ r

3 ☐ s

4 ☐ u

 Answer key/Solution

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Directions for questions 31 to 34: Answer the questions on the basis of the information given below.

Two clubs in IPL are rated objectively on three parameters- Strength of Fan Base, Skill level of Players, and strength of Commercial deals. Table 1 lists some of these ratings. The value of P and Q are known to be multiples of 10 but their exact value are unknown.

Three independent news agencies, however, attach different weights/multiplying factors to the three parameters to calculate the final rating. The multiplying factors for the three parameters are 3, 2, and 1 (in no particular order) as given in table 2. The higher the multiplying factor, the greater the importance of the parameter to the agency's final rating of a club.

Table 1

	Club A	Club B
Fan Base	40	Q
PlayersLevel	P	50
Commercialdeals	60	40

Table 2

	Fan Base	Players Level	Commercial deals
Agency 1	× 2	× 1	× 3
Agency 2	× 2	-	-
Agency 3	-	× 2	-

The final rating given by the agencies to the clubs depend on the ratings of the parameters and multiplying factors. For example, for Agency 1, the final rating given by it to the clubs will be calculated in the following manner:

$$\text{Final rating} = (\text{Fan base score} \times 2) + (\text{Players Level score} \times 1) + (\text{Commercial deals score} \times 3)$$

The following is also known about the final ratings given by the three agencies:

- Agency 1's rating for club A was higher than its rating for club B, which was 310.
- Agency 3's rating for club B was at least 20 points more than its rating for club A.
- Agency 2's rating for club A was higher than its rating for club B.

Q.31 [11594329]

Which agency's rating attached the most importance to Players Level?

1 ☐ Agency 1

2 ☐ Agency 2

3 ☐ Agency 3

4 ☐ Either Agency 2 or Agency 3

 Answer key/Solution

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Directions for questions 31 to 34: Answer the questions on the basis of the information given below.

Two clubs in IPL are rated objectively on three parameters- Strength of Fan Base, Skill level of Players, and strength of Commercial deals. Table 1 lists some of these ratings. The value of P and Q are known to be multiples of 10 but their exact value are unknown.

Three independent news agencies, however, attach different weights/multiplying factors to the three parameters to calculate the final rating. The multiplying factors for the three parameters are 3, 2, and 1 (in no particular order) as given in table 2. The higher the multiplying factor, the greater the importance of the parameter to the agency's final rating of a club.

Table 1

	Club A	Club B
Fan Base	40	Q
PlayersLevel	P	50
Commercialdeals	60	40

Table 2

	Fan Base	Players Level	Commercial deals
Agency 1	× 2	× 1	× 3
Agency 2	× 2	-	-
Agency 3	-	× 2	-

The final rating given by the agencies to the clubs depend on the ratings of the parameters and multiplying factors. For example, for Agency 1, the final rating given by it to the clubs will be calculated in the following manner:

$$\text{Final rating} = (\text{Fan base score} \times 2) + (\text{Players Level score} \times 1) + (\text{Commercial deals score} \times 3)$$

The following is also known about the final ratings given by the three agencies:

- Agency 1's rating for club A was higher than its rating for club B, which was 310.
- Agency 3's rating for club B was at least 20 points more than its rating for club A.
- Agency 2's rating for club A was higher than its rating for club B.

Q.32 [11594329]

Which of the following could be the final rating accorded by Agency 2 to club B?

1 ☐ 340

2 ☐ 330

3 ☐ 360

4 ☐ None of these

 Answer key/Solution

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Directions for questions 31 to 34: Answer the questions on the basis of the information given below.

Two clubs in IPL are rated objectively on three parameters- Strength of Fan Base, Skill level of Players, and strength of Commercial deals. Table 1 lists some of these ratings. The value of P and Q are known to be multiples of 10 but their exact value are unknown.

Three independent news agencies, however, attach different weights/multiplying factors to the three parameters to calculate the final rating. The multiplying factors for the three parameters are 3, 2, and 1 (in no particular order) as given in table 2. The higher the multiplying factor, the greater the importance of the parameter to the agency's final rating of a club.

Table 1

	Club A	Club B
Fan Base	40	Q
PlayersLevel	P	50
Commercialdeals	60	40

Table 2

	Fan Base	Players Level	Commercial deals
Agency 1	× 2	× 1	× 3
Agency 2	× 2	-	-
Agency 3	-	× 2	-

The final rating given by the agencies to the clubs depend on the ratings of the parameters and multiplying factors. For example, for Agency 1, the final rating given by it to the clubs will be calculated in the following manner:

$$\text{Final rating} = (\text{Fan base score} \times 2) + (\text{Players Level score} \times 1) + (\text{Commercial deals score} \times 3)$$

The following is also known about the final ratings given by the three agencies:

- Agency 1's rating for club A was higher than its rating for club B, which was 310.
- Agency 3's rating for club B was at least 20 points more than its rating for club A.
- Agency 2's rating for club A was higher than its rating for club B.

Q.33 [11594329]

What is the highest possible average rating given by the three agencies to club B?

 **Answer key/Solution**

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Directions for questions 31 to 34: Answer the questions on the basis of the information given below.

Two clubs in IPL are rated objectively on three parameters- Strength of Fan Base, Skill level of Players, and strength of Commercial deals. Table 1 lists some of these ratings. The value of P and Q are known to be multiples of 10 but their exact value are unknown.

Three independent news agencies, however, attach different weights/multiplying factors to the three parameters to calculate the final rating. The multiplying factors for the three parameters are 3, 2, and 1 (in no particular order) as given in table 2. The higher the multiplying factor, the greater the importance of the parameter to the agency's final rating of a club.

Table 1

	Club A	Club B
Fan Base	40	Q
PlayersLevel	P	50
Commercialdeals	60	40

Table 2

	Fan Base	Players Level	Commercial deals
Agency 1	$\times 2$	$\times 1$	$\times 3$
Agency 2	$\times 2$	-	-
Agency 3	-	$\times 2$	-

The final rating given by the agencies to the clubs depend on the ratings of the parameters and multiplying factors. For example, for Agency 1, the final rating given by it to the clubs will be calculated in the following manner:

$$\text{Final rating} = (\text{Fan base score} \times 2) + (\text{Players Level score} \times 1) + (\text{Commercial deals score} \times 3)$$

The following is also known about the final ratings given by the three agencies:

- Agency 1's rating for club A was higher than its rating for club B, which was 310.
- Agency 3's rating for club B was at least 20 points more than its rating for club A.
- Agency 2's rating for club A was higher than its rating for club B.

Q.34 [11594329]

Which of the following could be the values of P?

1 ☐ 60

2 ☐ 70

3 ☐ 80

4 ☐ Either (1) or (2)

 Answer key/Solution

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Directions for questions 35 to 38: Answer the questions on the basis of the information given below.

A group of college friends went to Goa on their summer vacation. One of the friends, Joey, who likes card games very much, performed a card magic trick to impress his friends. He, in the first magic trick, selected a pack of 13 cards of spade from deck of 52 cards. He arranged them in some order. As per his magic trick before his friends, from this arranged set of cards he discarded the card first from the top and place the second topmost card at the bottom of the pack. Then again discarded the third topmost card placed in initial arrangement and kept the fourth topmost card of the initial arrangement at the bottom of the pack. Continued so on till the last card in his hand was also discarded. His friends were stunned to see that the cards were discarded in the order of Ace (A), King (K), Queen(Q), Jack(J), 10, 9, 8, 7, 6, 5, 4, 3, 2. But Chandler, one of his friends, who was logically good, was quick to find out that the cards were arranged in a particular order. He could figured out the arrangement.

Face value of a card is defined as the number written on the card. Also, for cards A, K, Q, and J, the face values are 1, 13, 12, and 11 respectively.

Q.35 [11594329]

Which of the following was the second topmost card in the initial arrangement?

1 ☐ 3

2 ☐ 7

3 ☐ 2

4 ☐ 6

 Answer key/Solution

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Directions for questions 35 to 38: Answer the questions on the basis of the information given below.

A group of college friends went to Goa on their summer vacation. One of the friends, Joey, who likes card games very much, performed a card magic trick to impress his friends. He, in the first magic trick, selected a pack of 13 cards of spade from deck of 52 cards. He arranged them in some order. As per his magic trick before his friends, from this arranged set of cards he discarded the card first from the top and place the second topmost card at the bottom of the pack. Then again discarded the third topmost card placed in initial arrangement and kept the fourth topmost card of the initial arrangement at the bottom of the pack. Continued so on till the last card in his hand was also discarded. His friends were stunned to see that the cards were discarded in the order of Ace (A), King (K), Queen(Q), Jack(J), 10, 9, 8, 7, 6, 5, 4, 3, 2. But Chandler, one of his friends, who was logically good, was quick to find out that the cards were arranged in a particular order. He could figured out the arrangement.

Face value of a card is defined as the number written on the card. Also, for cards A, K, Q, and J, the face values are 1, 13, 12, and 11 respectively.

Q.36 [11594329]

What is the sum of the face values on the cards at the 8th, 9th, and 10th place in the initial arrangement?

1 ☐ 21

2 ☐ 18

3 ☐ 19

4 ☐ 20

 Answer key/Solution

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Directions for questions 35 to 38: Answer the questions on the basis of the information given below.

A group of college friends went to Goa on their summer vacation. One of the friends, Joey, who likes card games very much, performed a card magic trick to impress his friends. He, in the first magic trick, selected a pack of 13 cards of spade from deck of 52 cards. He arranged them in some order. As per his magic trick before his friends, from this arranged set of cards he discarded the card first from the top and place the second topmost card at the bottom of the pack. Then again discarded the third topmost card placed in initial arrangement and kept the fourth topmost card of the initial arrangement at the bottom of the pack. Continued so on till the last card in his hand was also discarded. His friends were stunned to see that the cards were discarded in the order of Ace (A), King (K), Queen(Q), Jack(J), 10, 9, 8, 7, 6, 5, 4, 3, 2. But Chandler, one of his friends, who was logically good, was quick to find out that the cards were arranged in a particular order. He could figured out the arrangement.

Face value of a card is defined as the number written on the card. Also, for cards A, K, Q, and J, the face values are 1, 13, 12, and 11 respectively.

Q.37 [11594329]

In the second magic trick, Joey arranged the same 13 cards in a different order and followed the same process of discarding the cards. The order in which he discarded the cards in the second magic trick was A, 2, 3, 4, 5, 6, 7, 8, 9, 10, J, Q, K, then which of the following is the absolute difference in the face value of the card at 12th position in the original arrangement of the 1st magic trick and that in the second magic trick?

1 ☐ 5

2 ☐ 3

3 ☐ 1

4 ☐ 4

[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)

Directions for questions 35 to 38: Answer the questions on the basis of the information given below.

A group of college friends went to Goa on their summer vacation. One of the friends, Joey, who likes card games very much, performed a card magic trick to impress his friends. He, in the first magic trick, selected a pack of 13 cards of spade from deck of 52 cards. He arranged them in some order. As per his magic trick before his friends, from this arranged set of cards he discarded the card first from the top and place the second topmost card at the bottom of the pack. Then again discarded the third topmost card placed in initial arrangement and kept the fourth topmost card of the initial arrangement at the bottom of the pack. Continued so on till the last card in his hand was also discarded. His friends were stunned to see that the cards were discarded in the order of Ace (A), King (K), Queen(Q), Jack(J), 10, 9, 8, 7, 6, 5, 4, 3, 2. But Chandler, one of his friends, who was logically good, was quick to find out that the cards were arranged in a particular order. He could figured out the arrangement.

Face value of a card is defined as the number written on the card. Also, for cards A, K, Q, and J, the face values are 1, 13, 12, and 11 respectively.

Q.38 [11594329]

As per the arrangement of the cards in the original arrangement in the second magic trick as given in the above question, how many positions had the same card as they had in the original arrangement of the first magic trick?

1 ☐ 0

2 ☐ 1

3 ☐ 2

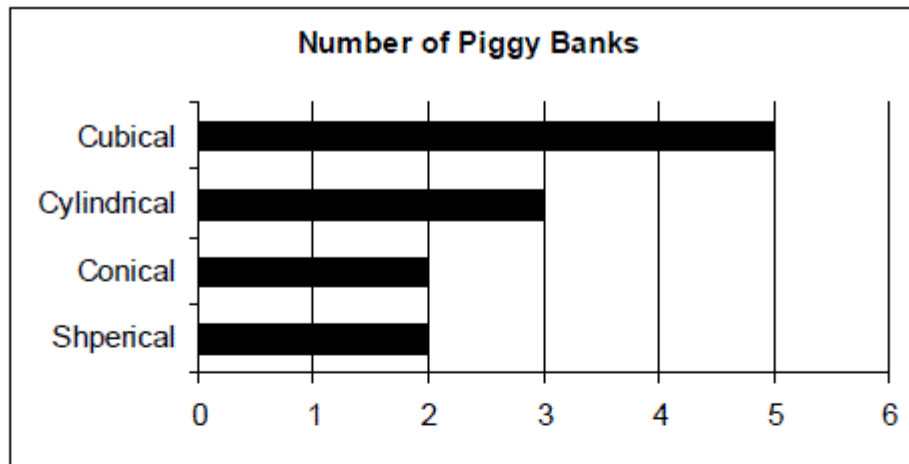
4 ☐ 5

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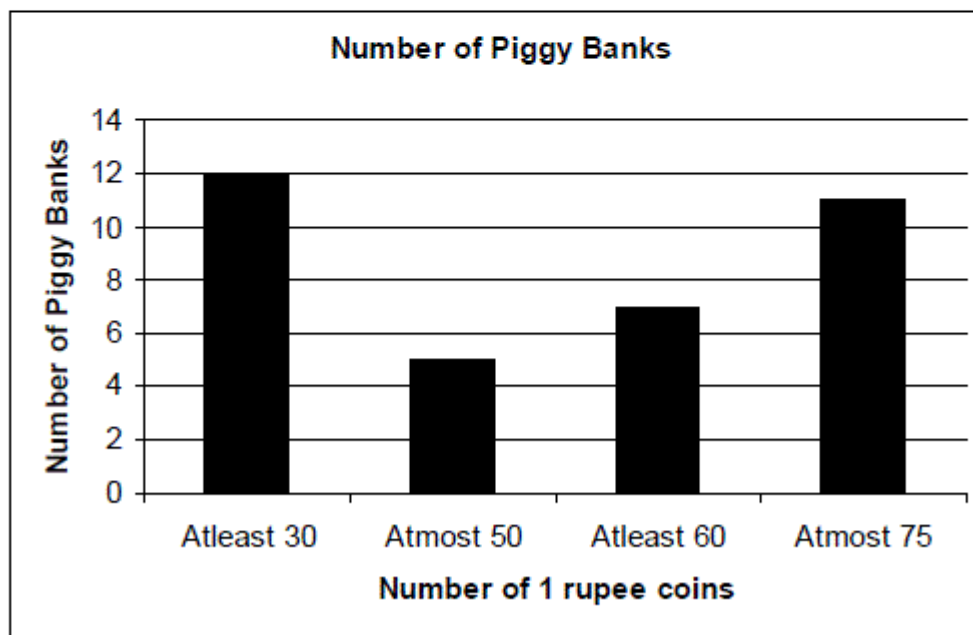
Directions for questions 39 to 42: Answer the questions on the basis of the information given below.

Robin has a certain number of Piggy Banks, which have different shapes among Cubical, Cylindrical, Conical, and Spherical. In each Piggy Bank, Robin has collected 1 rupee coins and the number of 1 rupee coins in each Piggy Bank is one of the following numbers- 30, 50, 60, 75, and 100. No two Piggy Banks of the same shape have equal number of 1 rupee coins in them.

The following bar graph shows the number of Piggy Banks of different shapes:



The following column graph shows the distribution of number of Piggy Banks containing different number of 1 rupee coins:



Note: Data given or calculated in a question will be used in the subsequent questions.

Q.39 [11594329]

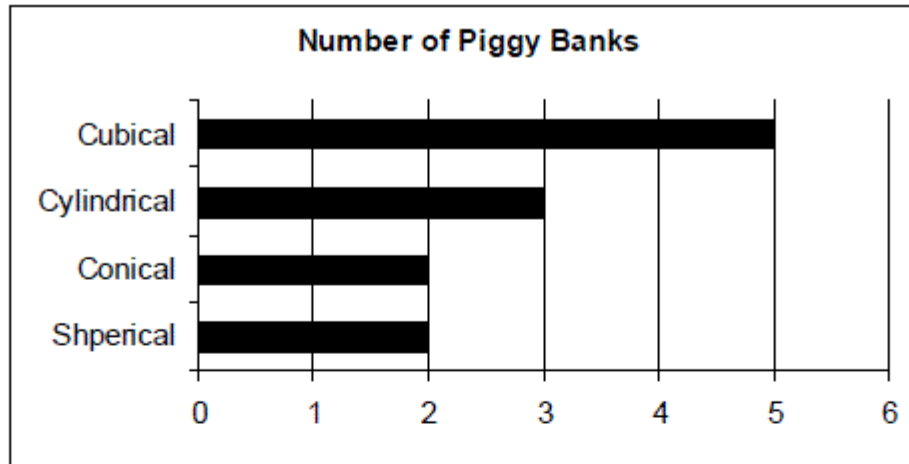
If it is known that the Cylindrical Piggy Banks contain the maximum possible number of 1 rupee coins, then what is the total number of 1 rupee coins in all the Cylindrical Piggy banks taken together?

[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)

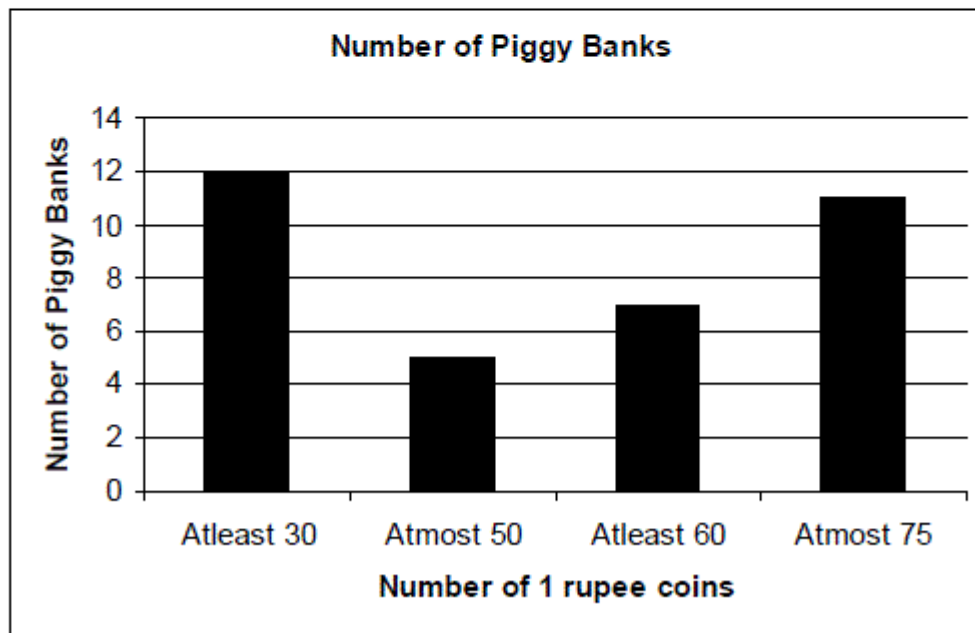
Directions for questions 39 to 42: Answer the questions on the basis of the information given below.

Robin has a certain number of Piggy Banks, which have different shapes among Cubical, Cylindrical, Conical, and Spherical. In each Piggy Bank, Robin has collected 1 rupee coins and the number of 1 rupee coins in each Piggy Bank is one of the following numbers- 30, 50, 60, 75, and 100. No two Piggy Banks of the same shape have equal number of 1 rupee coins in them.

The following bar graph shows the number of Piggy Banks of different shapes:



The following column graph shows the distribution of number of Piggy Banks containing different number of 1 rupee coins:



Note: Data given or calculated in a question will be used in the subsequent questions.

Q.40 [11594329]

If it is known that there are maximum possible number of Piggy Banks having 75 '1 rupee coins', then what is the number of Piggy Banks having 60 '1 rupee coins'?

1 ☐ 4

2 ○ 3

3 ○ 5

4 ○ 2

 Answer key/Solution

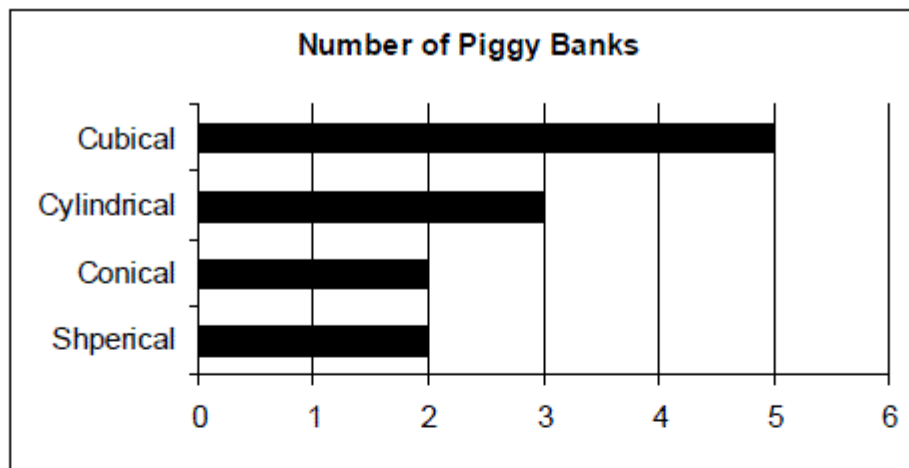
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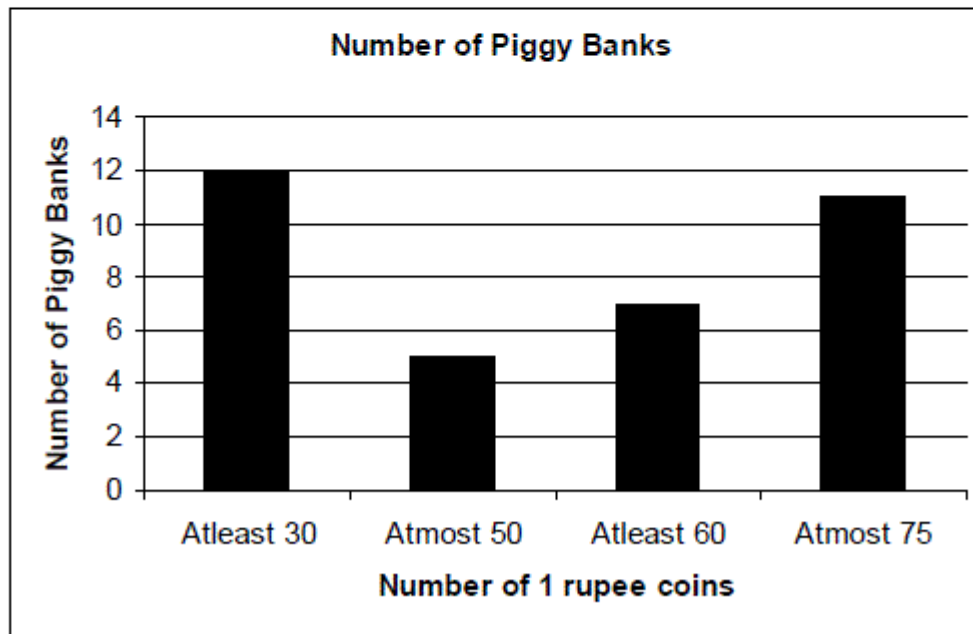
Directions for questions 39 to 42: Answer the questions on the basis of the information given below.

Robin has a certain number of Piggy Banks, which have different shapes among Cubical, Cylindrical, Conical, and Spherical. In each Piggy Bank, Robin has collected 1 rupee coins and the number of 1 rupee coins in each Piggy Bank is one of the following numbers- 30, 50, 60, 75, and 100. No two Piggy Banks of the same shape have equal number of 1 rupee coins in them.

The following bar graph shows the number of Piggy Banks of different shapes:



The following column graph shows the distribution of number of Piggy Banks containing different number of 1 rupee coins:



Note: Data given or calculated in a question will be used in the subsequent questions.

Q.41 [11594329]

If it is known that there are minimum possible number of Piggy Banks having 30 '1 rupee coins', then what is the total number of '1 rupee coins' in all the Spherical Piggy Banks taken together?

[Answer key/Solution](#)

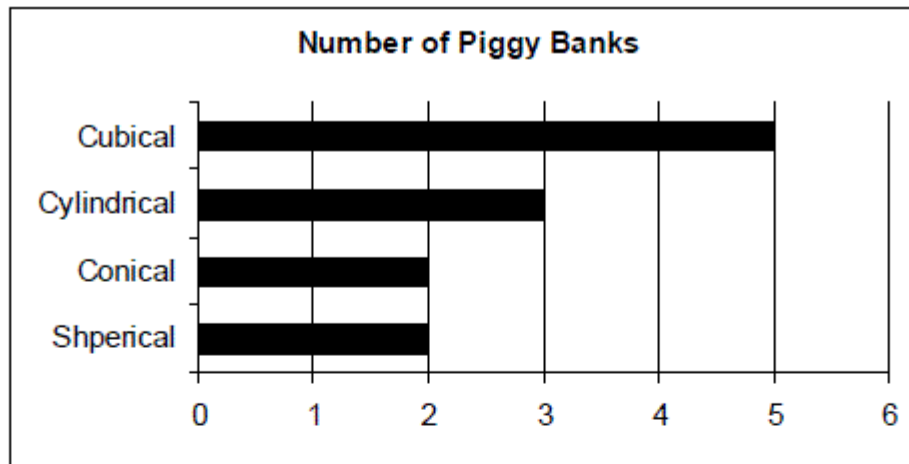
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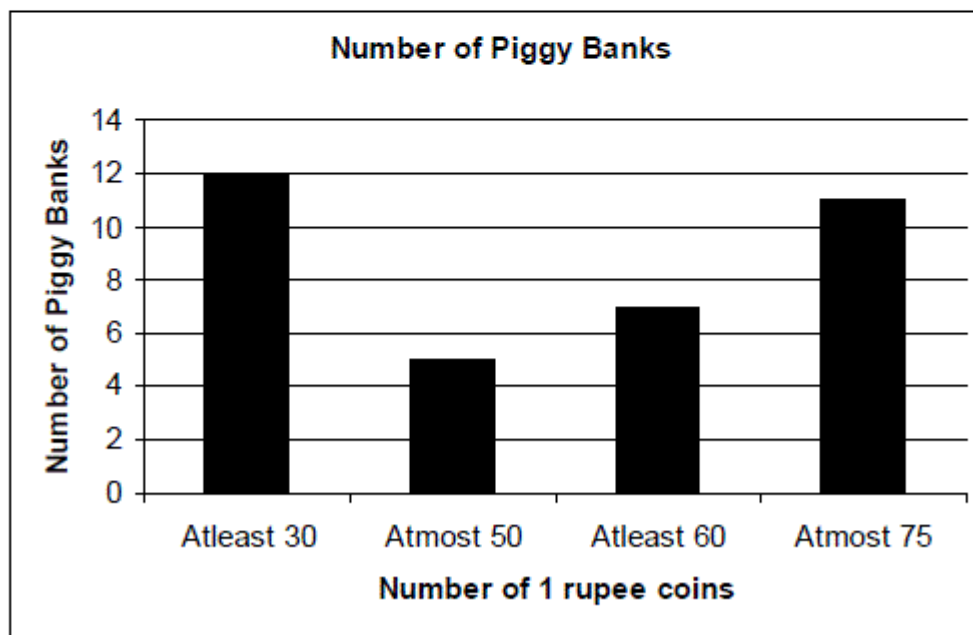
Directions for questions 39 to 42: Answer the questions on the basis of the information given below.

Robin has a certain number of Piggy Banks, which have different shapes among Cubical, Cylindrical, Conical, and Spherical. In each Piggy Bank, Robin has collected 1 rupee coins and the number of 1 rupee coins in each Piggy Bank is one of the following numbers- 30, 50, 60, 75, and 100. No two Piggy Banks of the same shape have equal number of 1 rupee coins in them.

The following bar graph shows the number of Piggy Banks of different shapes:



The following column graph shows the distribution of number of Piggy Banks containing different number of 1 rupee coins:



Note: Data given or calculated in a question will be used in the subsequent questions.

Q.42 [11594329]

What is the total amount (in Rs.) with Robin?

1 ☐ 750

2 ☐ 700

3 ☐ 850

4 ☐ 900

 Answer key/Solution

Bookmark

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Directions for questions 43 to 46: Answer the questions on the basis of the information given below.

A company has a Bonus Policy for their employees based on the number of new clients enrolled by them during a particular month. A total of 9 employees - Lalitesh, Amrendra, Aadesh, Tanmesh, Mukesh, Tarunesh, Sandesh, Harish, and Sahil - had enrolled more than 10 clients. Out of these 9 employees, 3 work in Retail Team, 2 in Energy Team, 2 in Hardware team, and 2 in Software team. The table below mentions the bonus gained (in percentage terms, i.e., as a percent of the weekly salary) depending upon the number of new clients.

Number of New clients	10 – 30	31 – 60	61 or more
Bonus	20%	30%	50%

Following are the statements to help you in figuring out the bonus amount gained by each employee and their departments.

- Lalitesh – I am from the Energy department and made at least 15 fewer new clients than the person who enrolled the most number of clients.
- Tarunesh – My bonus (%) was different from Mukesh's.
- Sahil – Harish and I enrolled the same number of new clients.
- Aadesh – I enrolled at least 30 clients less than Lalitesh but realized that I had enrolled more clients than Sandesh.
- Tanmesh – The bonus (%) that Amrendra and I received is the same.
- Mukesh – I generally manage to enroll exactly 30 new clients but led by demand, I managed to increase my new enrollments by 200%.
- Sandesh – I work in Retail team and enrolled as many new clients as Sahil. Harish does not work in my team.
- Harish – I enrolled exactly 30 clients. The highest number of new clients enrolled by someone from my team was 50.
- Amrendra – I work in the Hardware team and enrolled 40 clients.

Q.43 [11594329]

What is the number of people whose bonus will not be 50%?

1 ☐ 2

2 ☐ 4

3 ☐ 7

4 ☐ Cannot be determined


[Answer key/Solution](#)
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Directions for questions 43 to 46: Answer the questions on the basis of the information given below.

A company has a Bonus Policy for their employees based on the number of new clients enrolled by them during a particular month. A total of 9 employees - Lalitesh, Amrendra, Aadesh, Tanmesh, Mukesh, Tarunesh, Sandesh, Harish, and Sahil - had enrolled more than 10 clients. Out of these 9 employees, 3 work in Retail Team, 2 in Energy Team, 2 in Hardware team, and 2 in Software team. The table below mentions the bonus gained (in percentage terms, i.e., as a percent of the weekly salary) depending upon the number of new clients.

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- Mukesh – I generally manage to enroll exactly 30 new clients but led by demand, I managed to increase my new enrollments by 200%.
- Sandesh – I work in Retail team and enrolled as many new clients as Sahil. Harish does not work in my team.
- Harish – I enrolled exactly 30 clients. The highest number of new clients enrolled by someone from my team was 50.
- Amrendra – I work in the Hardware team and enrolled 40 clients.

Q.44 [11594329]

Which of the following options correctly represents the order of employees from the maximum enrollments to the least enrollments i.e., in descending order of new enrollments, if it is known that Tanmesh belongs to the Retail department?

- 1 ☐ Sahil, Aadesh, Amrendra
- 2 ☐ Lalitesh, Mukesh, Aadesh
- 3 ☐ Tarunesh, Aadesh, Sandesh

4 ○ Aadesh, Tarunesh, Harish


[Answer key/Solution](#)
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Directions for questions 43 to 46: Answer the questions on the basis of the information given below.

A company has a Bonus Policy for their employees based on the number of new clients enrolled by them during a particular month. A total of 9 employees - Lalitesh, Amrendra, Aadesh, Tanmesh, Mukesh, Tarunesh, Sandesh, Harish, and Sahil - had enrolled more than 10 clients. Out of these 9 employees, 3 work in Retail Team, 2 in Energy Team, 2 in Hardware team, and 2 in Software team. The table below mentions the bonus gained (in percentage terms, i.e., as a percent of the weekly salary) depending upon the number of new clients.

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- Sandesh – I work in Retail team and enrolled as many new clients as Sahil. Harish does not work in my team.
- Harish – I enrolled exactly 30 clients. The highest number of new clients enrolled by someone from my team was 50.
- Amrendra – I work in the Hardware team and enrolled 40 clients.

Q.45 [11594329]

Which of the following pair is definitely not from the same department?

1 ○ Tarunesh and Mukesh

2 ○ Lalitesh and Tarunesh

3 ○ Harish and Sahil

4 ○ Sahil and Mukesh

[Answer key/Solution](#)[Bookmark](#)[FeedBack](#)

Directions for questions 43 to 46: Answer the questions on the basis of the information given below.

A company has a Bonus Policy for their employees based on the number of new clients enrolled by them during a particular month. A total of 9 employees - Lalitesh, Amrendra, Aadesh, Tanmesh, Mukesh, Tarunesh, Sandesh, Harish, and Sahil - had enrolled more than 10 clients. Out of these 9 employees, 3 work in Retail Team, 2 in Energy Team, 2 in Hardware team, and 2 in Software team. The table below mentions the bonus gained (in percentage terms, i.e., as a percent of the weekly salary) depending upon the number of new clients.

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- Sandesh – I work in Retail team and enrolled as many new clients as Sahil. Harish does not work in my team.
- Harish – I enrolled exactly 30 clients. The highest number of new clients enrolled by someone from my team was 50.
- Amrendra – I work in the Hardware team and enrolled 40 clients.

Q.46 [11594329]

What bonus percentage did Aadesh get?



[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)

Directions for questions 47 to 50: Answer the questions on the basis of the information given below.

Shasha wants to get a new mobile phone number, which satisfies all the following conditions, with the digits being referred to as first to tenth, starting from the left most digit.

- (i) The first digit should be less than the 2nd digit, which is less than the 4th digit, while the 10th digit should be less than the 9th digit. Further, the 1st digit should be equal to the 3rd digit while the sum of the 4th digit and the 10th digit should be equal to the sum of the 6th digit and the 9th digit.
- (ii) The 3rd digit and the 8th digit, taken in any order should comprise a 2-digit prime number, but the 3rd digit should not be equal to the 8th digit.
- (iii) The 2nd digit, 5th digit, and 9th digit, taken in that order, form an increasing Geometric progression.
- (iv) The 6th digit and the 7th digit, in that order and the 7th digit and 8th digit, in that order, each should comprise a 2-digit prime number where the sum of the 6th digit, 7th digit, and 8th digit should be equal to the 9th digit.

Q.47 [11594329]

What could be the maximum difference possible numerically between two such mobile phone numbers?

1 ☐ 3999996

2 ☐ 2224229810

3 ☐ 5296520

4 ☐ 1003148714

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Directions for questions 47 to 50: Answer the questions on the basis of the information given below.

Shasha wants to get a new mobile phone number, which satisfies all the following conditions, with the digits being referred to as first to tenth, starting from the left most digit.

- (i) The first digit should be less than the 2nd digit, which is less than the 4th digit, while the 10th digit should be less than the 9th digit. Further, the 1st digit should be equal to the 3rd digit while the sum of the 4th digit and the 10th digit should be equal to the sum of the 6th digit and the 9th digit.
- (ii) The 3rd digit and the 8th digit, taken in any order should comprise a 2-digit prime number, but the 3rd digit should not be equal to the 8th digit.
- (iii) The 2nd digit, 5th digit, and 9th digit, taken in that order, form an increasing Geometric progression.
- (iv) The 6th digit and the 7th digit, in that order and the 7th digit and 8th digit, in that order, each should comprise a 2-digit prime number where the sum of the 6th digit, 7th digit, and 8th digit should be equal to the 9th digit.

Q.48 [11594329]

Which of the following is not a possible value of the 8th digit of the mobile phone number?

1 ☐ 1

2 ☐ 3

3 ☐ 7

4 ☐ 9

 Answer key/Solution

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Directions for questions 47 to 50: Answer the questions on the basis of the information given below.

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- (ii) The 3rd digit and the 8th digit, taken in any order should comprise a 2-digit prime number, but the 3rd digit should not be equal to the 8th digit.
- (iii) The 2nd digit, 5th digit, and 9th digit, taken in that order, form an increasing Geometric progression.
- (iv) The 6th digit and the 7th digit, in that order and the 7th digit and 8th digit, in that order, each should comprise a 2-digit prime number where the sum of the 6th digit, 7th digit, and 8th digit should be equal to the 9th digit.

Q.49 [11594329]

How many different values can the 10th digit of the number take?

1 ☐ 8

2 ☐ 6

3 ☐ 4

4 ☐ 2

 Answer key/Solution

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Directions for questions 47 to 50: Answer the questions on the basis of the information given below.

Shasha wants to get a new mobile phone number, which satisfies all the following conditions, with the digits being referred to as first to tenth, starting from the left most digit.

- (i) The first digit should be less than the 2nd digit, which is less than the 4th digit, while the 10th digit should be less than the 9th digit. Further, the 1st digit should be equal to the 3rd digit while the sum of the 4th digit and the 10th digit should be equal to the sum of the 6th digit and the 9th digit.
- (ii) The 3rd digit and the 8th digit, taken in any order should comprise a 2-digit prime number, but the 3rd digit should not be equal to the 8th digit.
- (iii) The 2nd digit, 5th digit, and 9th digit, taken in that order, form an increasing Geometric progression.
- (iv) The 6th digit and the 7th digit, in that order and the 7th digit and 8th digit, in that order, each should comprise a 2-digit prime number where the sum of the 6th digit, 7th digit, and 8th digit should be equal to the 9th digit.

Q.50 [11594329]

In how many ways can Shasha choose such a mobile number?

 Answer key/Solution

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Sec 3

Q.51 [11594329]

Ned is 33.33..% more efficient than John. Together they can complete the work in 40 days. If they start working together and on every 2nd day Ned takes rest and on every 3rd day John takes rest, then on which day will the work get completed?

1 ☐ 69th day

2 ☐ 66th day

3 ☐ 68th day

4 ☐ 70th day

 Answer key/Solution

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Q.52 [11594329]

Amita attempted 5 papers of 120 marks each in her board exams. The ratio of the marks obtained by her in CS to other 4 papers combined is 1 : 3. Similarly, the ratio of the marks obtained by her in Chemistry to other 4 papers combined is 1 : 4, in Maths and other 4 papers combined is 1 : 5 and in Physics and other 4 papers combined is 1 : 6. If Amita averaged 70% overall, how much did she score in the fifth paper, English?

 Answer key/Solution

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Q.53 [11594329]

A rhombus ABCD of side 4 cm has an angle equal to the external angle of a regular hexagon. The area (in cm²) of the rhombus ABCD is

1 ☐ $16\sqrt{3}$

2 ☐ $12\sqrt{3}$

3 ☐ $8\sqrt{3}$

4 ☐ $20\sqrt{3}$

[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)**Q.54 [11594329]**

Rohit while going to a stationary shop decided to buy a certain number of pens and pencils. On reaching the shop, he bought 50% more pens and 25% less pencils than what he decided, but the overall number of items remains same. By what percent will the number of items increase if he buys 16.66% more pens and 66.66% more pencils than what he decided?

[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)**Q.55 [11594329]**

If a seven digit number $N = 53x679y$ is divisible by 22, then find the number of possible values of N .

1 ☐ 32 ☐ 43 ☐ 54 ☐ 6[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)

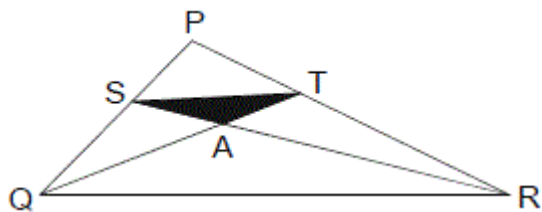
Q.56 [11594329]

Two persons start running around a circular track from the same point at the same time but in opposite directions with speeds in the ratio of 5 : 7. If the circumference of the track is 360 m, then what could be the distance of the starting point from the point where they meet for the 5th time?

- 1 ☐ 150 m
- 2 ☐ 210 m
- 3 ☐ 30 m
- 4 ☐ Either (1) or (2)

[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)**Q.57 [11594329]**

In triangle PQR, ST is parallel to QR and is also one-fourth of it. SR and QT meet at A and area of triangle SAQ and TAR are equal. If the area of the shaded portion is 3 sq. units, then find the area (in sq. units) of triangle PQR.



- 1 ☐ 90
- 2 ☐ 85
- 3 ☐ 100
- 4 ☐ 80

[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)

Q.58 [11594329]

Find the value of x, if $\log_9 243 + \log_9 2187 = \log_7 343 + \log_2 \sqrt{x}$.

[Answer key/Solution](#)[Bookmark](#)[FeedBack](#)**Q.59 [11594329]**

A juice shop owner sells juice by adulterating it with 2 litres of tap water. If he adulterates the same quantity of juice with 2 litres of mineral water, his profit drops by 20%. If tap water is free of cost and mineral water costs Rs. 15/litre, then find the cost of juice per litre without any adulteration.

[The shop owner always sells on cost price of the juice.]

1 ☐ 60

2 ☐ 45

3 ☐ 80

4 ☐ 75

[Answer key/Solution](#)[Bookmark](#)[FeedBack](#)**Q.60 [11594329]**

A tank has a number of inlet and outlet pipes attached to it. All inlet pipes are equally efficient. Similarly, all outlet pipes are equally efficient. If 2 outlet pipes and 1 inlet pipe are operated, the tank, which is initially full, is completely emptied in 24 hrs. If 1 outlet pipe and 2 inlet pipes are operated, the tank which is initially empty is completely filled in 6 hrs. If 5 outlet pipes and 3 inlet pipes are operated on the tank, which is initially half full, in how many hours will the tank be completely emptied?

1 ☐ 12 hrs

2 ☐ 24 hrs

3 ☐ 18 hrs

4 ☐ The tank will never be completely empty.

 Answer key/Solution

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Q.61 [11594329]

The LCM of 15^6 , 147^9 and x^3 is 735^9 . How many values can x take if x is a positive integer?

 Answer key/Solution

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Q.62 [11594329]

If p, q, r, s, t are the roots of the equation $x^5 + 2x^4 - 3x^3 - x^2 + 3x + 6 = 0$, then find the value of $(1 - p)(1 - q)(1 - r)(1 - s)(1 - t)$.

 Answer key/Solution

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Q.63 [11594329]

In a society, 50 people know Punjabi, 40 know Hindi, and 30 know Telugu. The number of people who know Punjabi and Hindi is 15. The number of people who know Hindi and Telugu is 8. If the number of people who know Punjabi and Telugu but not Hindi is at least 4, then what is the maximum number of people in the society who speak exactly one language?

[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)**Q.64 [11594329]**

Jon is moving up on an upward moving escalator and reaches the top taking 60 steps while Snow is moving down the same escalator. The ratio of speed of Jon and Snow is 3 : 4. If both of them start together and take equal time reaching the other ends, then find the number of steps on the escalator.

1 ☐ 752 ☐ 803 ☐ 704 ☐ 90[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)**Q.65 [11594329]**

If $\frac{1}{7} = \frac{1}{P} + \frac{1}{Q}$, then how many integer solutions for Q are possible if Q is a natural number greater than 10?

1 ☐ No solution2 ☐ Exactly 1 solution3 ☐ Exactly 2 solutions4 ☐ Exactly 3 solutions

[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)**Q.66 [11594329]**

The coordinates of point P and Q are (0, 0) and (16, 64) respectively. M1 is the midpoint of the line joining P and Q, M2 is the midpoint of the line joining M1 and P, M3 is the midpoint of the line joining M2 and P and so on. If the coordinates of M10 are (x, y), then find the value of $\left(\frac{1}{x} + \frac{1}{y}\right)$.

[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)**Q.67 [11594329]**

A man went to a restaurant to have a lunch. He is carrying currency notes of denomination Re. 1, Rs. 20, and Rs. 50. At the end of his meal he received a bill of Rs. 205, and he wants to pay the exact bill amount. In how many ways can he pay the bill?

[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)**Q.68 [11594329]**

A certain amount was lent at a fixed rate of interest compounded annually. Had the amount been lent at simple interest, the amount of interest would have been Rs. 3,500 less for initial two years and Rs.11,375 less for initial three years. Find the rate of interest and the amount (in Rs.) lent.

1 ☐ 25%, 64,000

2 ☐ 15%, 56,000

3 ☐ 25%, 56,000

4 ☐ 30%, 48,000

[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)**Q.69 [11594329]**

The prices of three varieties of sugar - I, II, and III - are Rs.24 per kg, Rs. 30 per kg and Rs. 40 per kg respectively. In what proportion can these three varieties of sugar be mixed such that the price of the resultant mixture is Rs.32 per kg?

1 ☐ 1 : 4 : 2

2 ☐ 4 : 4 : 5

3 ☐ 3 : 4 : 6

4 ☐ Both (1) and (2)

[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)**Q.70 [11594329]**

The sequence is defined as $T_1 = 7$, $T_2 = 11$, $T_3 = 16$, $T_4 = 22$, $T_5 = 29$, ..., has 100 terms. What is the value of T_{22} ?

1 ☐ $T_{19} + 47$

2 ☐ $T_{18} + 80$

3 ☐ $T_{17} + 90$

4 ☐ None of these



Answer key/Solution

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Q.71 [11594329]

A shopkeeper sells 16 kg of a mixture of black and green tea, where the amount of green tea in the mixture does not exceed that of black tea. The cost of black tea per kg is Rs. 40 more than that of green tea. If the shopkeeper sells the entire mixture for Rs. 3,456 and makes a profit of 20%, then what is the maximum possible cost (in Rs.) per kg of black tea?

1 ☐ 160

2 ☐ 120

3 ☐ 200

4 ☐ 240

Answer key/Solution

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Q.72 [11594329]

Find the minimum value of the sum of the squares of the roots of the quadratic equation $x^2 - (p + 2)x + (p - 6) = 0$; where p is a real number.

1 ☐ 88

2 ☐ 15

3 ☐ 11

4 ☐ None of these

[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)**Q.73 [11594329]**

Two friends Rob and Jack start travelling from Delhi to Meerut which are 50 km apart. The ratio of speeds of Rob and Jack is 7 : 3. Rob stops for 5 minutes after every 2 km and Jack stops for 10 minutes after every 5 km. They start simultaneously from Delhi and reach Meerut together. Find the time taken by Rob to reach Meerut from Delhi.

1 ☐ 137.5 minutes2 ☐ 142.5 minutes3 ☐ 145 minutes4 ☐ 140.5 minutes[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)**Q.74 [11594329]**

The sum of an infinite geometric progression is 7. If all the terms of the series are raised to power 3, then the sum of the resulting series will be 1029. Find the common ratio of the geometric progression.

1 ☐ $-1/2$ 2 ☐ -2 3 ☐ -1 4 ☐ Both (1) and (2)[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)

Q.75 [11594329]

Rose and Sam gave three online tests and received scores. On first test, Rose's score was 11 more than Sam's score. On second test, Rose's score was 3 more than Sam's score. If Sam's average score on the three tests was 4 more than the average score of Rose's on the three tests, then how much more is Sam's score on the third test than Rose's score?

1 ☐ 152 ☐ 233 ☐ 264 ☐ 28[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)