

TESTFUNDA

MENTAL AGILITY QUIZZES



Book 1

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PREFACE

For the past couple of years, CAT and other MBA entrance exams have shown a trend towards questions testing a student's ability to apply Mathematical Principles and Analytical Reasoning to solve problems. The unpredictable nature of CAT has ensured that most students are never fully prepared to ace the exam. This is because students limit their preparation to just the learning and practice of core concepts of Mathematics, Verbal Ability and Data Interpretation & Logical Reasoning. However, to bell the CAT, divergent thinking is required which is why experts also recommend solving an eclectic mix of Puzzles, Crosswords, Riddles and Brain Teasers. These enhance the problem-solving skills of CAT aspirants and encourage them to think out-of-the-box.

We, at TestFunda.com, conduct Online Quizzes that help hone one's Mental Agility. These fun quizzes are an entertaining way of sharpening one's logical acumen. The quizzes in this book will give students that extra edge and confidence needed to be ready for any surprise that an MBA entrance exam might throw their way.

We are sure that our readers will benefit greatly from these books. They shall provide a much-needed break from long study hours as well as high-quality cerebral recreation.

Online Quiz # 04 (13-Oct-08)

Q1. You have a peculiar clock. At midnight, when you checked with your wrist watch and set the time, the clock was showing the correct time. Now the clock is showing 3:00 a.m. It loses ten minutes every half an hour. What is the correct time now given that the clock stopped one hour ago?

Q2. A vegetable vendor bought 100 kg of potatoes to sell. These potatoes consist of 99% water. He sat on the roadside to sell them. Over the course of the day he sold half the potatoes. Since the sun was beating down all day on the potatoes, they lost some water due to evaporation. Now the potatoes contain only 98% water. How much do the remaining potatoes weigh?

Q3. These are the statements made by 5 people. Who out of these five is/are definitely lying?

Person A: B is lying

Person B: D is lying

Person C: I am not bothered who is lying

Person D: Both, A and B are lying

Person E: Lying is what liars do

Questions 4-8: Use given numbers and the four primary mathematical operations (+ - x /) and brackets to get the desired number. Use the given numbers only once.

Example: Make 33 out of 1, 2, 6, and 7.

Answer: $((6 - 1) \times 7) - 2$

Q4. Make 52 out of 2, 5, 8, and 9.

Q5. Make 34 out of 1, 2, 6, and 7.

Q6. Make 68 out of 1, 2, 8, and 9.

Q7. Make 44 out of 6, 7, 8, and 9.

Q8. Make 2 out of 1, 5, 7, and 7.

Questions 9-12: Lateral thinking puzzles. There is no single correct solution to these puzzles. We will use our discretion to allow / disallow the solutions.

Example: A man is found dead, hanging from the ceiling. The room is locked from inside and is completely empty with no furniture. The floor is wet. How did the man die.

Answer: He climbed on a block of ice and then hung himself. The ice melted over a period of time – that is why the floor is wet.

Q9. Anil looked through the dirty window on the 25th floor of a building. Suddenly he felt sick and tired – he opened the window and jumped through it. There was nothing to break or cushion his fall – the floor was hard stone. Yet he did not die – how?

Q10. Four men sat down to play. They were playing for money and not for fun. They played till the morning. When they split in the morning, they all had more money than they had when they started playing? How is it possible?

Q11. A man in a small town marries 10 women. He is not charged with polygamy though the polygamy is illegal in that town. Why?

Q12. One day a girl celebrated her birthday. Two days later, her older twin brother celebrated his. How is this possible?

Q13. I am spelled the same backwards and forwards. I travel very fast. What am I?

Q14. Below you will find 4 five letter words, with only their endings remaining. Can you determine the words?

..tar
..ine
..ist
..yst

Q15. One day the doorbell rung and two men were standing outside your door. One of them introduces the other by saying: "Brothers and sisters I have none, but that man's father is my father's son." What is the relationship between the two men?

Q16. Given below are 3 seven letter words, with only their last three letters provided. Can you determine the words?

....ain
....our
....thy

Q17. Given below are 3 seven letter words, with only their last three letters provided. Can you determine the words?

....rno
....mal
....nic

Q18. Given below are 4 seven letter words, with only their last three letters provided. Can you determine the words?

.... ane
.... try
.... ory
.... age

Q19. 5 nine letter words have been chopped off into pieces having three letters each. The pieces have been jumbled up. Every piece is used exactly once. Identify the words.

QuaScaHumLigPro
venhtnonglifbos
iedouscisgering

Q20. 5 nine letter words have been chopped off into pieces having three letters each. The pieces have been jumbled up. Every piece is used exactly once. Identify the words.

FraEccCauAstSac
rolrifenttersal
ricnalityiceogy

Q21. Can you find the countries given by the codes below. The letter indicates the first letter of the country and the number represents the number of letters in the name of the country. For example, E7 would be England.

Z6, L10, I9, E7, B6, J7, P8, M10, P4, F4

[View](#) the solutions of this quiz.

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Online Quiz #06 (17-Oct-08)

Q1. A man in a restaurant ordered gulab jamuns in a weird pattern every day for five days. After eating a certain amount of gulab jamuns on the first day, he ate five more gulab jamuns than the previous day every successive day. How many gulab jamuns had he eaten on the fourth day, if he had consumed 80 gulab jamuns during the five days?

Q2. Arrange the ten digits from 0 to 9 in three arithmetical expressions, using three of the four operations of addition, subtraction, multiplication, and division, and using no signs except the ordinary ones implying those operations. Use these digits only once and the operations also only once. Here is an example to make it quite clear (note that the example is not correct):
 $3 + 4 = 7$ $9 - 8 = 15$ $X 6 = 30$

Q3. What is the missing number in this arrangement?

1	2	3	4	5
1	3	7	15	31
1	4	13	40	121
1	5	21	85	341
1	6	31	156	???

Q4. Use each of the digits 1, 2, 3, 4, 5 and 6 once only, in this multiplication problem to make it correct.

?	?
X	?
<hr/>	
?	??

Q5. What is significant about the order of these numbers: 8 5 4 9 1 7 6 3 2

Q6. My mom and dad have faulty watches. I don't have any. My dad's watch consistently runs fast by three minutes per hour, and my mom's watch runs two minutes per hour slow. Yesterday, we missed our flight because the watches were three hours apart and we followed my mom's watch. How many hours had elapsed since both of them had been set properly?

Q7. 5 nine letter words have been chopped off into pieces having three letters each. The pieces have been jumbled up. Every piece is used exactly once. Identify the words. It is possible that you may find two pieces of the same word in the same column.

avisocusillyedu
ogybehurablenat
plaiolcationour

Q8. Given below are 4 seven letter words, with only three letters provided. Can you determine the words?

_ t t _ _ _ t
_ e _ w _ _ n
o _ _ e r _ _
_ _ m e o _ _

Q9. 5 nine letter words have been chopped off into pieces having three letters each. The pieces have been jumbled up. Every piece is used exactly once. Identify the words. It is possible that you may find two pieces of the same word in the same column.

ighionvermomral
lutepharyteneme
enlentsalevoetra

Q10. Given below are 4 seven letter words, with only three letters provided. Can you determine the words?

_ _ ll _ _ t
_ r o _ _ _ t
_ _ ll o _ _
_ t a r _ _ _

Directions for Questions 11-13: Use given numbers and the four primary mathematical operations (+ - x /) and brackets to get the desired number. Use the given numbers only once.

Example: Make 33 out of 1, 2, 6, and 7.

Answer: $((6 - 1) \times 7) - 2$

Q11. Make 5 out of 2,3,7, and 9.

Q12. Make 19 out of 6, 7, 8, and 9.

Q13. Make 120 out of 1, 7, 8, and 9.

Q14-16: Words have been encrypted in a certain way. Decrypt the codes and Find out the answer.

For example: If LIGHT = THGIL, then VISION = ?

Answer: NOISIV

Q14. In a certain code, WATER = XBWFS and TRAIN = USBJM. What is the code for CRASH?

Q15. If CAB = 14, BAD = 21. What is the value of DOG?

Hint: A=1, B=2, C=3 Z=26. The value of CAB is obtained by performing certain operations on the values of C, A and B.

Q16. If CHART = DJDVY, then what is the code for LEAF?

Q17. I am a 6 letter word.

Letters 3-2-5 involves taking a risk.

You could end up in 1-2-3-5 if you make a 3-2-5.

Letters 1-4-5-6 is a pre-arranged meeting

Q18 – 20: The following words are anagrams for a single word

For example: Circllet Yeti is Electricity

Q18. Shipmates Moor

Hint: This word means a change or transformation

Q19. A Hubcap Soil Rot

Hint: This word means “a fear of enclosed spaces”.

Q20. Club Neuter

Hint: This word means “commotion or turmoil”.

[View](#) the solutions of this quiz.

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Online Quiz #08 (31-Oct-08)

For questions 1 and 2: Five nine-lettered words are broken in parts of 3-3-3 each and are jumbled below. Find the words:

Q1.

ity nis cha ied can
mbe ers ery cla ago
red adv tic rif chi

Q2.

tin ell env ged ded
gar ess con ive emb
uum ish isa exc lan

Q3. IF RANDOM = TZPFNL, what is SIMPLE?

Q4. If ABACUS = 41 and TALLEST = 82, what is FLAGELLA?

Q5. If SOCKET = URGPKA, what is PHILHARMONIC?

For questions 6 and 7: Fill in the blanks to complete the following seven-lettered words:

Q6.

_ b _ s h _ _
_ _ _ u s _ l
_ z _ _ i s _
g _ _ r _ e _
_ o _ e _ i _

Q7.

_ r _ h _ r _
_ e n _ _ n _
t _ e _ _ t _
_ d _ _ a _ t
c _ u c _ _ _

Q8. A shelf in Mrs. Robinson's store-room has a capacity of 150 identical cans of food. Mrs. Robinson arranged all the cans she had into stacks of five each and noticed that she had no cans remaining. Her daughter used up one can to make soup for dinner. Mrs. Robinson noticed that, now, if she arranged the cans in stacks of 7, she would have none remaining. The number of cans she had was the highest possible fulfilling the given conditions. How many cans of food did Mrs. Robinson originally have?

Q9. The gardeners at Rani Lakshmibai Chowk want to plant a total of 45 white and pink flowers in one flower bed. In another flower bed, they want to plant 120 flowers. In this bed, they want two times the number of white flowers and three times the number of pink flowers as in the first bed. How many white flowers the gardeners should buy altogether?

Q10. A is taller than B. C is 4 inches shorter than B. Difference between the height of C and D is 6 inches. The difference between the heights of the tallest and the shortest is 10 inches. The sum of the two tallest guys is 140 inches. What is the height of C?

Q11. Ravi has a piece of cardboard of dimensions 19 cm x 17 cm. He cuts off a square of side 4 cm, at each corner and folds the cardboard to make an open box. What is the volume that the box can encompass neglecting the thickness of the cardboard.

Q12. Complete the sequence:
2836272?

Directions for Questions 13-16: Use given numbers and the four primary mathematical operations (+ - x /) and brackets to get the desired number. Use the given numbers only once.

Example: Make 32 out of 2, 8, 7 and 4.

Answer: $(8 \times 7) / 2 + 4$

Q13. Make 28 with 9, 1, 2, 6.

Q14. Make 24 with 7, 6, 5, 4.

Q15. Make 44 with 1, 5, 7, 9.

Q16. Make 91 from 2,6,7,9

Q17. I am an 8 letter word.

Letters 6, 7, 8 tell us how old a person is.

Letters 5, 6, 4, 8 are something we enter through every day.

Every item in a supermarket has a 4, 6, 5 on it.

4, 2, 1 spell out the name of a boy.

One swabs the floor with a 3, 6, 5.

Identify me.

Q18. I am a 6 letter word.

Letters 6, 5, 2 spell out a drink.

Letters 4, 5, 2, 3 spell out a fruit.

Letters 3, 2, 6 spell out a pest, which often gets eaten by the pet spelled by the letters 1, 2, 6.

What am I?

Q19. Below you will find seven well-known seven letter words, with only their endings remaining. Can you determine the words?

....nst

....nip

....rno

....dox

....sil

Q20. Below you will find seven well-known seven letter words, with only their endings remaining. Can you determine the words?

....iem

....arb

....ior

....bey

....van

[View](#) the solutions of this quiz.

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Online Quiz #09 (07-Nov-08)

Q1. 11 friends contribute some money to go for an outing. The money contributed by them is in A.P. Sum of the lowest contributor and the 5th lowest contributor is the average of the contribution of all the friends. What is the ratio of highest and lowest contribution?

Q2. Prakash's bike gives a mileage of 64 km/litre in ideal conditions. With a pillion it drops by 8 km/litre. Prakash drops his son (18 kgs), to his school everyday 7 km away and then goes 8 km further to office and returns the same way picking up his son. What is the mileage in a day.

Q3. There are 2 different paths to travel from city A to city B. Path 1 (105 km) has 2 toll nakas in between. The toll to be paid on these is Rs. 25 and Rs. 35 respectively. Path 2 (175 km) has 1 toll naka and the toll to be paid is Rs. 15. If one considers time value of money as Rs. 25/hr then which is the path one should take if the speed is 35 km/hr.

Q4. Shreya loves talking on her cell. She talks on an average 25 minutes on a weekday from Monday to Friday and around 45 minutes on weekends. If she has refilled the talktime on the first of a month, which is a Thursday, so that she can speak for 600 minutes, what is the day on which she would need to go for refill?

For questions 5 and 6: Five nine-lettered words are broken in parts of 3-3-3 each and are jumbled below. Find the words.

Q5.
conuredexentary
ebuutetemousdes
tertitlliporfig

Q6.
ursertcatategue
tergeoexciveing
phyassaligraalo

Q7. Fill in the blanks to complete the following seven-lettered words.

M _ _ N D _ _
_ _ Y _ A _ K
K _ B _ _ _ Z
_ N _ M _ U _
_ N T _ _ _ N

Q8. Fill in the blanks to complete the following eight-lettered words

E _ _ O _ C _ D
_ _ R _ N _ E D
F _ A _ M _ _ T
_ N _ U _ I _ G
_ U T _ A _ T _

Q9. Fill in the blanks to complete the following eight-lettered words.

R _ _ O _ O _ S
A _ T _ _ T _ C
_ _ T E R _ _ L
H _ _ I _ I _ Y
_ B S _ _ E _ E

For questions 10 to 12: Use three of the four basic operators (+, -, X, /) and brackets to get the number from the given numbers. Use any operator only once.

Example: Make 64 using 1, 7, 6, 5

Answer: $(7 + 6) \times 5 - 1$

Q10. Make 39 using 6, 2, 7, 3.

Q11. Make 72 using 3, 1, 9, 6.

Q12. Make 58 using 1, 6, 9, 4.

Q13. Below you will find 5 seven lettered words with their endings remaining. Can you determine the words?

_____ n c t

_____ a i r

_____ a l a

_____ n o x

_____ e b o

Q14. Below you will find 4 five letter words, with only their endings remaining. Can you determine the words?

.. ste

.. ear

..eat

.. ill

..owd

Q15.

Complete the sequence

7 22 45 76 ?

Q16. A three digit number and a two digit number are multiplied to get a five digit number as follows.

51A

x A5

1ABCC

Find the values of A, B and C.

Q17. A three digit number and a two digit number are multiplied to get a five digit number as follows.

AB9

x 3C

B9AC3

Find the values of A, B and C.

Q18. A and B both select a number each and C selects the number which is the HCF of the numbers selected by A and B. Product of the numbers selected by A and B is 6 times the square of the number selected by C. What is the ratio of LCM and HCF of the numbers selected by A and B?

Q19.

I am a 9 letter word.

2-3-4-5-9 means to deteriorate

5-6-9-1-8 is a cherished desire

6-7-8-9 is a former mistress who resides by the Tiber.

Q20.

I am an 11 letter word.

The 1-2-3 is an important concept in geometry.

6-7-8-7 was perhaps the greatest player of the "beautiful game"

6-7-8-7 has scored many a 10-11-9-8 in his career.

1-2-3-4-5-7 has many 'comic' capers with Cooper and Lodge.

Creatures that make the sound 3-4-5-2-6 usually find 6-7-2-3-4 a resting place.

[View](#) the solutions of this quiz.

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Online Quiz #11 (28-Nov-08)

Directions for Questions 1-3: A,B,C,D,E and F are single digit positive integers. Identify them.

Q1.

A 4 B

x B 9

—————
DC9AA

Q2.

A B 9

x 1 C

—————
F 9 E D

Q3.

9 A B

x B 9

—————
BC7AC

Directions for Questions 4-7: Append a word to either the beginning or end of the words given and make a compound word.

Note: The same word must be appended to all the words. New compound words won't be entertained.

For Example:

Q. Motion

Poke

Down

Answer: Slow.

Slowmotion

Slowpoke

Slowdown

Q4. Some

Wash

Back

Q5. Whole

Quarrel

Day

Q6. Black

Play

Number

Q7. Tell

See

There

Directions for Questions 8-10: Append letters to the beginning or end or both of the following fragments to make meaningful words.

For Example:

Q. agme

Answer: Fragment.

Q8. msoe

Erog

Q9. eleco

ioac

Q10. hle

ewil

Questions 11-14 are lateral thinking puzzles.

Q11. A person was caught by cannibals. He was supposed to pick one of the two papers in front of him "Leave" and "Imprison" depending upon which his fate would be decided. One of his enemies secretly told him that he has replaced the paper with "Leave" by "Imprison". So now both papers have "Imprison" written on them. There is no way you can tell the cannibals what your enemy has done. How do you save yourself?

Q12. A father was approached by two gentlemen to marry his daughter. It was decided that there would be a race between them where they would ride their horses. The one whose horse reaches the finish line last would marry the daughter. The two men were wandering for days on the their horses in order to keep away from the finish line. One day a wise old man met them who told them something. After that they rushed towards the finish line. What did the old man tell them?

Q13. How do you divide 5 fully filled barrels, 5 half-filled barrels and 5 empty barrels among three people such that everybody gets equal number of full barrels, equal number of half-filled barrels and equal number of empty barrels?

Q14. 10 people in a group make the following statements about the liars in the group. Only one of the following statements is true. How many liars are there?

- 1: There is only one liar in the group
- 2: There are exactly two liars in the group
- 3: There are exactly two liars in the group

.
. .
. .
. .

- 10: There are exactly 10 liars in the group

Directions for Questions 15-17: Append the same set of two letters to make meaningful words.

Q. w h o _ _ s a _ _

Answer: W h o l e s a l e

Q15. A _ _ a _ _ a

Tr _ _ b a d _ _ r

Q16. _ _ d a _ _ t e d

S _ _ u r _ _ e

Q17. H _ _ g _ _ l i n

l o _ _ i _ _

Q18. Shyam travelled by a train that was 3 km long. The train travelled at 3 km/min. There was a tunnel in its way through which the train needed to pass. The tunnel was also 3 km long. How long will it take the train to pass through the tunnel completely?

Q19. Ravi travelled in a car 22.5 km from town A to town B. He used 6 tyres in all during the journey. All the tyres were used equally. What was the distance traveled by each tyre.

Q20. Dinesh visited 8 of his colleagues in strange pattern. He visited the first colleague every day. He visited the second every second day and so on. When will he meet all the friends on the same day?

[View](#) the solutions of this quiz.

[Discuss](#) the quiz with TestFunda users

Online Quiz #13 (12-Dec-08)

Directions for Questions 1-4: Append a word to either the beginning or end of the words given and make a compound word.

Note: The same word must be appended to all the words. New compound words won't be entertained.

For Example:

Q. Motion

Poke

Down

Answer: Slow

Slowmotion

Slowpoke

Slowdown

Q1. winner

Sweet

Corn

Q2. Top

Test

Well

Q3. Child

Water

Read

Q4. Buck

Sore

Lash

Directions for Questions 5-8: Append the same letter to the beginning and end of the following fragments to make meaningful words.

For Example:

Q. ape

oas

ero

Answer: lapel.

toast

xerox

Q5. lo

as

ort

Q6. rou

oli

axi

Q7. illo
ibe
otio

Q8. luf
earl
quat

Directions for Questions 9 and 10: A letter has been changed in each word of the following quotes. Identify the actual quotes.

For example:

Q.Loot befort yon heap.

Answer: Look before you leap.

Q9.
Don's budge I look be ids lover.
Halt I leaf it letter then to tread.

Q10.
Beauts if oily skit jeep.
I pool any hit honey ate moon darted.

Directions for Questions 11 and 12: The following questions are lateral thinking riddles.

Q11. Men love me more that their lives,
and fear me more than death or even their wives,
I am the requirement of the rich and the possession of the poor,
The contented desire me,
The miser spends me, but the spendthrift saves,
I accompany each of them even in their graves.
Who am I?

Q12. I wave my hands at you,
Yet never say goodbye,
It's cool when I hang around you,
Especially when I am high.
Who am I?

Directions for Questions 13-16: The following questions are lateral thinking puzzles.

Q13. Amit boughts apples at Rs.50 per Kg from an American supermarket and sold them at Rs. 10 per kg in Bangladesh. After doing this, he became a millionaire. How come?

Q14. A truck driver was spotted clearly going the wrong way down a one-way street, yet the police officer did not attempt to stop him. Why?

Q15. There were three boxes on a table labeled 'mangoes,' 'papayas' and 'mangoes and papayas' according to their contents. However, the labeling was done incorrectly for all three boxes. By removing just 1 fruit from anyone of the boxes, how can you determine the contents of the boxes?

Q16. The police raided a house to arrest an alleged criminal after they received a tip off from an anonymous caller. They didn't know what he looked like. All they knew was that his name was Rudra and that he was inside that house. When they entered the house, they found a doctor, a professor, a gym trainer and a fireman watching television. They immediately arrested the fireman without hesitating or communicating with any one in the room. How did they know that they'd got their man?

Directions for Questions 17-20: The following questions are mathematical questions.

Q17. A fraction has its denominator greater than its numerator by 5. If we add 4 to the denominator, the fraction is equal to $\frac{1}{4}$. What is the fraction?

Q18. Find two smallest possible whole numbers such that the difference between their cubes is a square and the difference between their squares is a cube.

Q19. At 9:45 pm, What is the angle between the hour and the minute hands?

Q20. In a certain system of barter, 2 cows are worth 5 dogs, and 9 dogs are worth 2 horses. Then five horses are worth how many cows?

[View](#) the solutions of this quiz.

[Discuss](#) the quiz with TestFunda users

Online Quiz #15 (24-Dec-08)

Directions for Questions 1-3: Append a word to either the beginning or end of the words given and make a compound word.

Note: The same word must be appended to all the words. New compound words won't be entertained.

For Example:

Q. Motion

Poke

Down

Answer: Slow.

Slowmotion

Slowpoke

Slowdown

Q1. Off

Start

Drop

Q2. Loose

Bare

Ball

Q3. Way

Lark

Diver

Directions for Questions 4-7: Append the same letter to the beginning and end of the following fragments to make meaningful words.

For Example:

Q. ape

oas

ero

Answer: lapel - The alphabet "l" has been added to the beginning and end of the fragment.

toast - The alphabet "t" has been added to the beginning and end of the fragment.

xerox - The alphabet "x" has been added to the beginning and end of the fragment.

Q4. aro

ur

agl

Q5. ar

lur

aun

Q6. aya

ode

moeb

Q7. evolve
addila
elude

Directions for Questions 8-11: A letter has been changed in each word of the following quotes. Identify the actual quotes.

For example:

Q. Loot befort yon heap.

Answer: Look before you leap.

Q8. P bat pause required mans lords.
I boot it lite p warden married on she rocket.

Q9. I bard on toe sand it forth too on o rush.
p broker wand words, put cot p broker hears.

Q10. L bat hat fine hives.
I clean comscience in a sofa willow.

Q11. I chose triend fan became o chose enema.
I closet south hatches to fries.

Directions for Questions 12-15: The following questions are lateral thinking puzzles.

Q12. Raj entered a restaurant and asked the waiter for a glass of water. The waiter looked at him, contemplated for a minute, and finally pulled out a revolver and pointed it at him. Raj thanked him and went home. Why?

Q13. Pallavi heated her tea in a small microwave oven for exactly a minute. Then, she opened the door of the oven, closed it, and heated her tea for 2 more seconds. Why?

Q14. Raja died in his own house due to thirst. How?

Q15. A husband and a wife go out for a movie, during which the husband strangles his wife to death. However, he manages to get her corpse home without attracting any attention. How come?

Directions for Questions 16-18: The following questions are lateral thinking riddles.

Q16. I can be had but not held,
Gained slowly but lost quickly,
I can be great when treated with care;
Betray me and I shall break!
What am I?

Q17. My clouds come after my lightning
while my lightning comes after my thunder
When I rain, all the land that gets touched dries!
What am I?

Q18. I am unwanted.
But when you have me you try you level-best not to lose me.
What am I?

Directions for Questions 19-20: The following questions are mathematical problems

Q19. There exist three integers in an arithmetic sequence such that their product is prime. Identify the integers.

Q20. Ram photographed an aeroplane flying overhead that had a span of 15 metres. He took the photograph when the plane was directly overhead. The depth of his camera was 15 cm. When the photograph was developed, the span of the plane was 10 mm. Determine the height at which the plane was flying when the photograph had been taken.

[View](#) the solutions of this quiz.

[Discuss](#) the quiz with TestFunda users

Online Quiz #17 (09-Jan-09)

Directions for Questions 1-4: Append a word to either the beginning or end of the words given and make a compound word.

Note: The same word must be appended to all the words. New compound words won't be entertained.

For Example:

Q. Motion

Poke

Down

Answer: Slow

Slowmotion

Slowpoke

Slowdown

Q1. After

Time

Like

Q2. Script

Weapon

Impose

Q3. Tail

Less

Back

Q4. Pan

Walk

Cheese

Directions for Questions 5-8: Append the same letter to the beginning and end of the following fragments to make meaningful words.

For Example:

Q. ape

oas

ero

A. lapel.

toast

xerox

Q5. rui

sconc

idbi

Q6. cequi

ras

ntic

Q7. lop
rac
inu

Q8. umul
ugen
pitrit

Directions for Questions 9-12: A letter has been changed in each word of the following quotes. Identify the actual quotes.

For example:

Q. Loot befort yon heap.

Ans: Look before you leap.

Q9. P countly man by budged be she qualify on ids proverts.
V pimple in she thin, she levil wishin

Q10. S brink preceded v store.
P frowning can it got troubles my gain.

Q11. R tool seem nit she some free chat f wine can seem.
D Farest it on in scorn.

Q12. B Uriend's eve it b food tirror.
F food menial, she fest joint it saw.

Directions for Questions 13-16: The following questions are lateral thinking puzzles.

Q13. Manish looked at the ceiling of his bedroom and saw the stain left by his blood on the ceiling. How did the blood get there?

Q14. Ramesh ran up to his boss and asked him not to take his flight to Alaska as he saw, in his dream the prior night, that the flight crashed and all the passengers died. The boss fired him from the job. Why?

Q15. When filling out the personal information form in America, Craig, the returning tourist, wrote his birth date as 20/06/86 and due to this, he was arrested. Why?

Directions for Questions 16-17: The following questions are lateral thinking riddles.

Q16. Intact, I am both safe and sane,
Beheaded once, I become a place of meeting,
Beheaded twice, I become the partner of ready.
On restoring me, I become the residence of beasts.
What am I?

Q17. I work even when I'm broken,
But I may be snared if touched,
Nothing matters to you when you lose me.
What am I?

Directions for Questions 18-20: The following questions are mathematical problems

Q18. In a restaurant, the price of 9 burgers, 8 pizzas and 6 sandwiches is Rs. 420 and the price of 5 burgers, 4 pizzas and 2 sandwiches is Rs. 262. Deduce the price of 8 burgers, 8 pizzas and 8 sandwiches.

Q19. P. S. Drona scored an average of 45 runs in the first 6 matches. If the first match is not counted and the seventh match is counted, then the average score goes up to 60 runs. If his score in the first match was 40 runs, find his score in the seventh match.

Q20. By working 9 hours every day, 25 men complete a job in 10 days. Find the number of hours a day that 15 men should work in order to complete the job in 10 days.

[View](#) the solutions of this quiz.

[Discuss](#) the quiz with TestFunda users

Online Quiz #19 (23-Jan-09)

Directions for Questions 1-4: Append a word to either the beginning or end of the words given and make a compound word.

Note: The same word must be appended to all the words. New compound words won't be entertained.

For Example:

Q. Motion

Poke

Down

Answer: Slow.

Slowmotion

Slowpoke

Slowdown

Q1. Last

Hand

Black

Q2. Fish

Gazer

Super

Q3. Kick

Shady

Along

Q4. Image

Math

Glow

Directions for Questions 5-8: Append the same letter to the beginning and end of the following fragments to make meaningful words.

For Example:

Q. ape

oas

ero

Answer: lapel.

Toast

xerox

Q5. ouris

empes

ote

Q6. ebite

onate

lopeci

Q7. lanc
scalop
rues

Q8. merita
rys
stat

Directions for Questions 9-12: A letter has been changed in each word of the following quotes. Identify the actual quotes.

For example:

Q.Loot befort yon heap.

Answer: Look before you leap.

Q9. Food advise it oaten annoting, dad advise fever.
Mood an brink it, is ands on thilst.

Q10. Gold duck bears farly riding.
Be why heaps sigh lust make u gong rut.

Q11. Calf o load it wetter that note.
Taste takes taste.

Q12. Cave o horde if hour owl aid when lou way sorrow another'z.
Hi it hot rise chat in nit rise nor himself.

Directions for Questions 13-16: The following questions are lateral thinking puzzles.

Q13. I want to insert a coin in an empty bottle and then insert a cork into its neck. How can I remove the coin from the bottle without removing the cork or breaking the bottle?

Q14. Raju pushed a car up to a hotel and told the owner of the hotel that he's bankrupt. How come?

Q15. Ashish was making coffee when he accidentally dropped a sugar cube into the coffee. One minute later he removed the whole cube intact. How?

Directions for Questions 16-17: The following questions are lateral thinking riddles.

Q16. I'm available in different sizes and shapes. I have some curved and some straight parts. You can put me wherever you please, though only one of those places is right. What am I?

Q17. You cannot see me, touch me or feel me.
Yet everyone has me.
People debate my existence.
Yet I have a style of music to myself.
What am I?

Directions for Questions 18-20: The following questions are mathematical problems

Q18. Pipe P fills an empty tank in 30 minutes when used alone. Pipe Q does the same in 50 minutes. Chandini decided to use both the pipes simultaneously. After how long should she close P so that the tank gets filled in 35 minutes?

Q19. How would you divide 2000 mangoes into 11 sacks such that if a certain number of mangoes are sought, they can be given in terms of sacks rather than in terms of individual mangoes?

Q20. Rose syrup and milk were mixed in the ratio 1 : 6 to produce a 42 litre solution. Later 9 litres of rose syrup were added to the solution. Deduce the ratio of rose syrup to milk in the new formed solution.

[View](#) the solutions of this quiz.

[Discuss](#) the quiz with TestFunda users

Online Quiz #21 (06-Feb-09)

Directions for Questions 1-4: Append a word to either the beginning or end of the words given and make a compound word.

Note: The same word must be appended to all the words. New compound words won't be entertained.

For Example:

Q. Motion

Poke

Down

Answer: Slow.

Slowmotion

Slowpoke

Slowdown

Q1. Room

Fire

High

Q2. Carry

Over

Spice

Q3. Paper

Eyed

Stone

Q4. Bathe

Baked

Up

Directions for Questions 5-8: Append the same letter to the beginning and end of the following fragments to make meaningful words.

For Example:

Q. ape

oas

ero

Answer: lapel.

toast

xerox

Q5. orren

Ashis

aci

Q6. spidistr

yan

eat

Q7. antamoun
oly
phedrin

Q8. riden
lum
itc

Directions for Questions 9-12: A letter has been changed in each word of the following quotes. Identify the actual quotes.

For example:

Q.Loot befort yon heap.

Answer: Look before you leap.

Q9. To nit palk Arabia on she mouse on e Moon.
Fon't iritate she ply bejore lou hale sings.

Q10. Con't took i lift porse it she month.
Avery harden lay cave same weedy.

Q11. Hat bell, brink it moteration, ant sweep round, it chese shree food wealth around.
Enigrams succedd there erics fall.

Q12. Avery ans moves no tear hirsself pray.
Ever t stall thort nauses pertering.

Directions for Questions 13-14: The following questions are lateral thinking puzzles.

Q13. A fervent bird-watcher sees an unexpected bird and dies. How come?

Q14. A man had an unopened package. As he approached the centre of an open field, he knew he was bound to die. How?

Directions for Questions 15-16: The following questions are lateral thinking riddles.

Q15. I am a 9 letter word.
7-8-9 is an insect.
3-4-5 make a policeman.
5-7-8-9 is what you do after running.
3-2-1-9 refer to a vesicle or sac.
6-4-5 is the partner of hip.
Intact, people tell me I'm like a parasite.
What am I?

Q16. I am a 6 letter word.
5-4-3-2 make me boring.
1-2-3 refers to everyone.
5-6-2-3 is the name of a prominent laptop manufacturer.
What am I?

Directions for Questions 17-20: The following questions are mathematical problems

Q17. Amu drew a salary that was 25% less than Bittu's salary. Bittu's salary was 20% lower than Chotu's salary. What is the percentage by which Chotu's salary is more than Amu's salary?

Q18. Rani's savings and expenditure are in the ratio 4:5. After her appraisal at work, her income increased by 10%. However, her expenditure also increased by 13%. What is the percentage change in her savings?

Q19. Ali, Bali and Cali invested their money in a project in the ratio 5 : 7 : 9. Cali withdrew the partnership 4 months later while Ali withdrew the partnership 10 months later. At the end of the year, Bali earned a profit of Rs. 21000. Calculate the profits earned by Ali and Cali.

Q20. Ravi and Kishan decided to travel by car towards each other's houses and meet midway. They both stayed 72 km apart and drove at 12000 m/hr. They both set off from their respective homes at the same instant. The moment they started, Ravi's pet pigeon started flying back and forth between their houses at 16 km/hr till the two friends met. Calculate the distance travelled by the pigeon.

Q21. Raju, the grocer, uses a faulty weighing machine that shows 1 kg for every 800 gms. Despite, that he charged 15% more than the cost price per kg on the weight measured on the weighing scale. Find his profit percentage.

[View](#) the solutions of this quiz.

[Discuss](#) the quiz with TestFunda users

ANSWERS

Solutions of Online Quiz # 4

Answer 1: 5:30 a.m.

Since the clock loses 20 minutes per hour – so, for every hour that passes it shows only 40 minutes. Since the clock shows 3:00am, we know that 180 clock minutes have passed. This means that in reality $180/40 = 4.5$ hours have passed. The clock stopped 1 hour ago – total elapsed time = 5.5 hours. The time now must be 5.30 a.m.

Answer 2: 25 kg

In the beginning the vegetable vendor had 99 kg water and 1 kg of “potato matter”. After he sold half the potatoes, he had 0.5 kg of “potato matter” left. Let us say that the total weight of remaining potatoes is w .

Then $(w - 0.5)/w = 98\%$

Or, $100w - 50 = 98w$

Or, $w = 50/2 = 25$ kg

Answer 3. Answer: Both A and D are lying. Statements of C and E are irrelevant as they don't convey any information. So consider the statements of only A, B and D

Answer 4. Answer: $(9 - (5 \div 2)) \times 8$

Answer 5. Answer: $((7 - 1) \times 6) - 2$

Answer 6. Answer: $(9 - (1 \div 2)) \times 8$

Answer 7. Answer: $(7 - (9 \div 6)) \times 8$

Answer 8. Answer: $(7 + 5) \div (7 - 1)$

Answer 9: Anil was a window washer. He was standing on a scaffolding outside the window. He opened the window and jumped inside.

Answer 10: The men were musicians playing at a concert for money

Answer 11: He was a priest.

Answer 12: The boy, the older twin, was born early on March 1st. Then the boat crossed the International Date Line, and the girl was born on February 28th. In a leap year, the younger twin celebrates her birthday two days before her older brother.

Answer 13: A race car

Answer 14: altar, spine, twist, tryst

Answer 15: Father and son. Substitute the phrase “my father's son” with “me”!

Answer 16: Disdain, parlour, swarthy

Answer 17: inferno, thermal, chronic

Answer 18: profane, poultry, oratory, collage

Answer 19: Proboscis

Humongous

Scavenger

Qualified

Lightning

Answer 20: Eccentric

Astrology

Causality

Fraternal

Sacrifice

Answer 21: Zambia, Luxembourg, Indonesia, Ecuador, Brazil (or Belize), Jamaica, Pakistan (or Paraguay), Mozambique (or Montenegro or Madagascar), Peru, Fiji.

Solutions of Online Quiz #6

Answer 1: He ate 21 gulab jamuns on the fourth day.
Let the number of gulab jamuns he ate on the first day be x .
A summary of his consumption is as follows:

1st day	x
2nd day	$x+5$
3rd day	$x+10$
4th day	$x+15$
5th day	$x+20$
Total	$5x+50$

Therefore, we deduce that: $5x+50=80$ which implies $x=6$
On the fourth day, he ate, $x+15$, that is 21 gulab jamuns.

Answer 2: $7 + 1 = 89 - 6 = 34 \times 5 = 20$.

Answer 3: 781

$1 \times 1 + 1 = 2$	$2 \times 1 + 1 = 3$	$3 \times 1 + 1 = 4$	$4 \times 1 + 1 = 5$
$1 \times 2 + 1 = 3$	$3 \times 2 + 1 = 7$	$7 \times 2 + 1 = 15$	$15 \times 2 + 1 = 31$
$1 \times 3 + 1 = 4$	$4 \times 3 + 1 = 13$	$13 \times 3 + 1 = 40$	$40 \times 3 + 1 = 121$
$1 \times 4 + 1 = 5$	$5 \times 4 + 1 = 21$	$21 \times 4 + 1 = 85$	$85 \times 4 + 1 = 341$
$1 \times 5 + 1 = 6$	$6 \times 5 + 1 = 31$	$31 \times 5 + 1 = 156$	$156 \times 5 + 1 = 781$

Answer 4: $54 \times 3 = 162$.

Answer 5: They have been arranged in the alphabetical order of their spellings.

Answer 6: 36 hours.

The two watches go $(2+3=)$ 5 minutes apart every hour.
They differed by 3 hours.
Dividing 3 hours by 5 minutes we get,
 $180/5 = 36$

Answer 7: sociology
behaviour
education
plausible
naturally

Answer 8: attempt/attract
between
observe/obverse
someone/timeout

Answer 9:
Enlighten
Traversal
Evolution
Ephemeral
Momentary

Answer 10:

Gallant/collect
Wrought/Brought/Protect
Callous/Balloon/Follows
Starter/Startle/Staring

Answer 11: $[(9/3) + 7]/2$ OR $[(7 + 9)/2] - 3$

Answer 12: $[(9 \times 8)/6] + 7$

Answer 13: $[(9+8) \times 7] + 1$

Answer 14: DSBTI. All the letters have been replaced by the letters succeeding them.

Answer 15: 290

$CAB = C^2 + A^2 + B^2 = 9 + 1 + 4 = 14$

$BAD = 4 + 1 + 16 = 21.$

Similarly, $O = 15$ and $G = 7$. So, $DOG = 16 + 225 + 49 = 290.$

Answer 16: MGDJ.

The first letter is replaced by its succeeding letter. The second letter is replaced by the second letter after it, the third by the third letter after it and so on.

Answer 17: DEBATE

Explanation:

Letters 3-2-5 involves taking a risk – BET

You could end up in 1-2-3-5 if you make a 3-2-5 – DEBT

Letters 1-4-5-6 is a pre-arranged meeting – DATE

Answer 18: Metamorphosis

Answer 19: Claustrophobia

Answer 20: Turbulence

Solutions of Online Quiz #8

Answer 1: Adversity

Agonistic
Chambered
Clarified
Chicanery

Answer 2: Continuum

Embellish
Envisaged
Excessive
Garlanded

Answer 3: RHLRND

Every even-numbered letter of the English alphabet was replaced by a letter two numbers after it, while every odd-numbered letter was replaced by a letter one number before it.

Answer 4: 48

The value of a word is obtained by adding the numbers corresponding to the letters of the word and subtracting the number of letters present in the word.

ABACUS = $1 + 2 + 1 + 3 + 21 + 19 - 6 = 47 - 6 = 41$

TALLEST = $20 + 1 + 12 + 12 + 5 + 19 + 20 - 7 = 89 - 7 = 82$

Therefore, FLAGELLA = $6 + 12 + 1 + 7 + 5 + 12 + 12 + 1 - 8 = 56 - 8 = 48$

Answer 5: RKMQNHZVYYUP

The first letter is replaced by a letter two numbers after it. The second letter is replaced by a letter three numbers after it and so on.

For questions 6 and 7: Fill in the blanks to complete the following seven-lettered words:

Answer 6: Abashed

Arousal/Perusal
Czarism/Czarist/Czarish
Gourmet/Guarded
Polemic

Answer 7: Orchard/Archery

Pendant/Pentane/Lenient/benzene
Twelfth/There to
Adamant
Chuckle/Crucial/Crucify

Answer 8: 120

We have to find the greatest multiple of 5, less than 150, such that one number less than it is divisible by 7. This number works out to be 120.

$120/5 = 0$ and $119/7 = 0$

Answer 9: 45

We can solve this using simultaneous equations.

Answer 10: 62 inches

A-D-B-C represents the decreasing order of heights. Height of A = 72 inches and hence height of C is 62 inches.

Answer 11: The height of the box will be 4 cm. The length will be $(19 - 4 - 4 =)11$ cm and the breadth will be $(17 - 4 - 4 =)9$ cm. So, the volume of the box will be $11 \times 9 \times 4 = 396$ cubic cm.

Answer 12: 3150

$1 \times 1 + 1^1 = 22 \times 2 + 2^2 = 83 \times 3 + 3^3 = 364 \times 4 + 4^4 = 2725 \times 5 + 5^5 = 3150$

Answer 13: $9 \times 6 / 2 + 1 = 28$ or $(9 + 6 - 1) \times 2$

Answer 14: $4 \times (5 + 7 - 6) = 24$ or $(7 + 5) * (6 - 4)$

Answer 15: $(5 \times 7 + 9) / 1 = 44$

Answer 16: $(6 + 7) * (9 - 2)$

Answer 17: Mortgage

6, 7, 8: age

5, 6, 4, 8: gate

1-2-6: cat

4, 6, 5: tag

4, 2, 1: Tom

3, 6, 5: rag

Answer 18: CARPET

6-5-2: tea

4-5-2-3: pear

3-2-6: rat

1-2-6: cat

Answer 19: Against

parsnip

inferno

paradox

utensil

Answer 20: requiem

rhubarb

warrior

disobey

caravan

Solutions of Online Quiz #9

Answer 1: 11:1

The average of the 11 terms of the A.P. will be equal to the 6th term

As given 6th term = 1st term + 5th term

Solving we get, first term = common difference

Highest contribution = 11 times the Lowest contribution.

Answer 2: 60 km/litre

With Prakash and his son the mileage is 56 km/litre and with Prakash alone the mileage is 64 km/litre. The average mileage is given by $15 / ((7/56) + (8/64)) = 60$ km/litre

Answer 3: Path 1

The additional time one takes to travel on path 2 is two hours which is equivalent to Rs. 50. The additional toll paid for path 1 is Rs. 45.

Answer 4: 20th

She would have used a talktime of 595 minutes till end of 19th. So on 20th she would need to go for the refill.

For questions 5 and 6: Five nine-lettered words are broken in parts of 3-3-3 each and are jumbled below. Find the words.

Answer 5: Configure

Temporary

Destitute

Dexterous

Ebullient

Answer 6: Asserting

Catalogue

Excursive

Geography

Aliterate

Answer 7: Meander

Jaywalk/Skywalk/Payback

Kibbutz

Enamour

Entrain

Answer 8: Enforced

Deranged/Arranged

Fragment

Enduring

Outcaste

Answers 9: Rigorous

Artistic/Autistic

Interval/Arterial/External

Humidity

Obsolete

Answer 10: $(7/2 + 3) \times 6$

Answer 11: $(9 - 1) \times (6 + 3)$

Answer 12: $(6 \times 9) + (4/1)$

Answers 13: Extinct/Defunct/Adjunct

Dispair

Mandala

Equinox

Placebo

Answer 14: haste/ paste/ caste/ taste

swear

sweat

skill

crowd

Answer 15: 115

The difference of the terms is 15, 23, 31,.... So the difference in the last term and 76 should be 39.

Answer 16: A = 2, B = 8, C = 0

From observation one can conclude that C = 2. The solution follows thereafter.

Answer 17: A = 5, B = 2, C = 7

From observation we can conclude C = 7. The solution follows thereafter.

Answer 18: 6:1

Use the property that product of two numbers is equal to LCM \times HCF.

Answer 19: AERODROME – An airfield equipped with control tower and hangers as well as accommodations for passengers and cargo

2-3-4-5-9 means to deteriorate – ERODE

5-6-9-1-8 is a cherished desire – DREAM

6-7-8-9 is a former mistress who resides by the Tiber – ROME (Rome, formerly the “Mistress of the World” is a city on the banks of the River Tiber)

Answer 20: Archipelago – A group of many islands in a large body of water

The 1-2-3 is an important concept in geometry. – ARC

6-7-8-7 was perhaps the greatest player of the “beautiful game” – PELE (Soccer is the “beautiful game”)

6-7-8-7 has scored many a 10-11-9-8 in his career. – PELE has scored many a GOAL in his career.

1-2-3-4-5-7 has many ‘comic’ capers with Cooper and Lodge – ARCHIE (He has featured in many comic capers with Betty Cooper and Veronica Lodge)

Creatures that make the sound 3-4-5-2-6 usually find 6-7-2-3-4 a resting place – CHIRP and PERCH

Solutions of Online Quiz #11

Answer 1: A = 7, B = 3, C = 8, D = 2

Answer 2: A = 5, B = 7, C = 2, D = 8, E = 4, F = 6

OR

A = 2, B = 5, C = 9, D = 1, E = 2, F = 4

Answer 3: A = 5, B = 4, C = 6

Answer 4: Hand.

Handsome

Handwash

Backhand

Answer 5: Some.

Wholesome

Quarrelsome

Someday

Answer 6: Out.

Blackout

Outplay

Outnumber

Answer 7: Fore.

Foretell

Foresee

Therefore

Answer 8: Whomsoever

Hieroglyphic/Erogenous/ and others...

Answer 9: Telecommunication/Teleconference

Radioactive/Bioactive

Answer 10: Phlegm/Athlete

Bewilder

Answer 11: Take out one paper and eat it.

Answer 12: Exchange the horses and rush towards the finish line. Remember it is OK even if the person crosses the line first as long as his horse comes second.

Answer 13: Mix two half filled barrels into a fully filled barrel. Now one has 6 fully filled barrels, 3 half filled barrels and 6 empty barrels.

Answer 14: There are 9 liars.

Only the statement of 9 is logically consistent.

Answer 15: A l f a l f a

T r o u b a d o u r

Answer 16: U n d a u n t e d
S a t u r a t e

Answer 17: H o b g o b l i n
l o n g i n g

Answer 18: 2 minutes. The train need to travel 6 km to completely pass through the tunnel. After the first 3 km, the train wil be completely in the tunnel and after 3 more completely out of it. So time required = distance/speed = $6/3 = 2$ minutes.

Answer 19: 15 kms. When a car travels 5 km, all 4 tyres travel 5 km each. So, when 22.5 kms have been traveled, $(22.5 \times 4 =)$ 90 kms have been traveled in all. But 6 tyres were used. so each tyre traveled $90/6 = 15$ kms.

Answer 20: 840. he can meet all of them after x number of days such that x is the L.C.M., which turns out to be 840.

Solutions of Online Quiz #13

Answer 1: Bread.

Breadwinner
Sweetbread
Cornbread

Answer 2: Tube.

Tubetop
Test-tube
Tube-well

Answer 3: Proof.

Childproof
Waterproof
Proofread

Answer 4: Eye.

Buckeye
Eyesore
Eyelash

Answer 5: blob

sass/hash/ease
aorta/sorts

Answer 6: trout

colic
maxim

Answer 7: willow

libel
notion

Answer 8: fluff

yearly
equate/squats

Answer 9:

Don't judge a book by its cover.
Half a loaf is better than no bread.

Answer 10:

Beauty is only skin deep.
A fool and his money are soon parted.

Answer 11: Nothing.

Answer 12: An electric fan.

Answer 13: Amit bought great quantities of apples to sell to poor people at prices they could afford. He started out as a billionaire, but lost so much money in his good works that he became a millionaire.

Answer 14: The driver was walking.

Answer 15: Take a piece of fruit from the box marked 'mangoes and papayas'.

Suppose the fruit you extract is a mango. As the labelling has been done incorrectly, this box cannot contain both mangoes and papayas. Also, since a mango was extracted from the box, it has to contain mangoes only. Now, the box labelled as papayas can neither contain only papayas nor can it only contain mangoes. Hence, it contains mangoes and papayas. The remaining box would contain only papayas. Similarly, if the fruit extracted was a papaya, we can determine the boxes using the same method.

Answer 16: He was the only man in the room. The rest were all women.

Answer 17: $3/8$.

Answer 18: 0 and 1

Answer 19: 22.5 degrees

At 9:45, the minute hand will be perfectly horizontal and will point towards 9. The hour hand will be towards 10. Also, hour hand must have covered $3/4$ th of angle between 9 and 10.

The angle between two adjacent digits is $360/12 = 30$ degrees.

Hence $3/4$ of it is 22.5 degrees.

Answer 20: 9 cows.

We know that

2 cows = 5 dogs

18 cows = 45 dogs ----- (I)

Also,

9 dogs = 2 horses

45 dogs = 10 horses

18 cows = 10 horses ----- From (I)

Therefore,

5 horses = 9 cows

Solutions of Online Quiz #15

Answer 1: Kick.

Kickoff

Kickstart

DropKick

Answer 2: Foot.

Footloose

Barefoot

Football

Answer 3: Sky.

Skyway

Skylark

Skydiver

Answer 4: Tarot

Aura

Eagle

Answer 5: Barb

Blurb

Taunt

Answer 6: Kayak

Modem

Amoeba

Answer 7: Revolver

Caddilac

Deluded

Answer 8: A bad cause requires many words.

A book is like a garden carried in the pocket.

Answer 9: A bird in the hand is worth two in a bush.

A broken hand works, but not a broken heart.

Answer 10: A cat has nine lives.

A clear conscience is a soft pillow.

Answer 11: A close friend can become a close enemy.

A closed mouth catches no flies.

Answer 12: Raj had hiccups. The waiter scared them away with his revolver.

Answer 13: She opened the door and saw that her cup's handle was facing the back of the microwave. In order that she can reach the cup-handle and avoid burning her hand, She set the oven for two more seconds, so that the turntable would turn 180 degrees.

Answer 14: His house was a houseboat and he died due to lack of water as he was on an extended cruise.

Answer 15: They had gone for a drive-in movie.

Answer 16: Trust.

Answer 17: A volcano.

Answer 18: A lawsuit.

Answer 19: -3, -1, 1.

Answer 20: 225 metres.

Let x be the height in metres.

Now, actual span of the plane : span of the plane in the picture = height of the plane above the lens : depth of camera.

So, $15000 : 10 = x : 0.15$

Hence, $x = 225$ metres.

Solutions of Online Quiz #17

Answer 1: Life.

Afterlife
Lifetime
Lifelike

Answer 2: Super.

Superscript
Superweapon
Superimpose

Answer 3: Bone.

Tailbone
Boneless
Backbone

Answer 4: Cake.

Pancake
Cakewalk
Cheesecake

Answer 5: Druid

Esconce
Tidbit

Answer 6: Acequia

Erase
Entice

Answer 7: Elope

Tract
Sinus

Answer 8: Tumult

Eugene
Epitrite

Answer 9: A country can be judged by the quality of its proverbs.

A dimple on the chin, the devil within.

Answer 10: A drink precedes a story.

A drowning man is not troubled by rain.

Answer 11: A fool sees not the same tree that a wise man sees.

A forest is in an acorn.

Answer 12: A friend's eye is a good mirror.

A good denial, the best point in law.

Answer 13: A mosquito had bit Manish and in retaliation he had swatted it when it settled on his ceiling and that resulted in the stain of his and the mosquito's blood together.

Answer 14: Ramesh was the night watchman and he was expected to be patrolling rather than dreaming.

Answer 15: Craig was a spy posing as returning American tourist. Hence, when filling the form he wrote his birth date as 20/06/86, instead of the way an American would write it, viz. 06/20/86.

Answer 16: Stable

Answer 17: Heart.

Answer 18: Rs. 316.

Let the cost of each burger, pizza and sandwich be Rs. x , y and z respectively

Therefore, $9x + 8y + 6z = 420$...(i)

And $5x + 4y + 2z = 262$...(ii)

Subtracting (ii) from (i),

$4x + 4y + 4z = 158$

Therefore $8x + 8y + 8z = 316$

Therefore the price of 8 burgers, 8 pizzas and 8 sandwiches is Rs. 316.

Answer 19: 130.

Total score of Drona in first 6 matches = 270

And in the last 6 matches = 360

Score in the seventh match = Total score in all 7 matches – Total score in the first 6 matches
= $360 + 40 - 270 = 130$

Therefore, Drona scored 130 runs in the seventh match.

Answer 20: 15 hours.

Since 25 men take 10 days at 9 hours per day, the total man hours required for the job is $25 \times 10 \times 9 = 2250$

As 15 men are working on the same job, the number of man hours required for the job will still be the same.

Hence, the number of hours that they should work every day is $2250 / (15 \times 10) = 15$ hours.

Solutions of Online Quiz #19

Answer 1: Out.

Outlast
Handout
Blackout

Answer 2: Star.

Starfish
Stargazer
Superstar

Answer 3: Side.

Sidekick
Shadyside
Alongside

Answer 4: After.

Afterimage
Aftermath
Afterglow

Answer 5: tourist

tempest
doted

Answer 6: debited

donated
alopecia

Answer 7: elance

Escalope
Truest

Answer 8: emeritae

tryst
estate

Answer 9: Good advice is often annoying, bad advice never.

Good as drink is, it ends in thirst.

Answer 10: Good luck beats early rising.

He who leaps high must take a long run.

Answer 11: Half a loaf is better than none.

Haste makes waste.

Answer 12: Have a horse of your own and then you may borrow another's.

He is not wise that is not wise for himself.

Answer 13: Push the cork into the bottle and shake the coin out.

Answer 14: It was a game of monopoly.

Answer 15: The coffee was an instant coffee. Water hadn't yet been added.

Answer 16: A Jigsaw Puzzle.

Answer 17: A soul.

Answer 18: 9 minutes.

In one minute pipe Q fills $(1/50)$ th part of a tank

Since it works for 35 minutes, it fills $35(1/50) = 7/10$

The remaining $3/10$ th is filled by P.

Since P fills the tank fully in 30 minutes, it takes $(3/10) \times 30 = 9$ minutes to fill $3/10$ th part of the tank.

So P should be closed after 9 minutes.

Answer 19: 1, 2, 4, 8, 16, 32, 64, 128, 256, 512, 977

If only 1 mango is sought, one sack must contain 1 mango.

If 2 mangoes are sought, one sack must contain 2 mangoes.

If 3 mangoes are sought, sack one and sack two that add up to 3 can be given.

For 4 mangoes, one sack must contain 4 mangoes.

Now using sack number one, two and three containing 1, 2 and 4 mangoes respectively, one can give up to 7 mangoes. Hence, the fourth sack must contain 8 mangoes.

Similarly, using first four sacks containing 1, 2, 4 and 8 mangoes, up to 15 mangoes can be given. Hence, the fifth sack must contain 16 mangoes.

It's evident that each sack contains mangoes according to powers of 2 in the increasing order. Hence the answer is 1, 2, 4, 8, 16, 32, 64, 128, 256, 512 and 977. This is true for any number of mangoes up to 2000.

Answer 20: 5 : 12.

Amount of rose syrup in the original solution was $(= (1/7) \times 42)$ 6 litres.

So, the amount of milk = 36 litres.

After adding 9 litres of rose syrup, the mixture now contains 15 litres of rose syrup.

Hence,

Rose syrup : Milk = $15:36 = 5 : 12$.

Solutions of Online Quiz #21

Answer 1: Ball.

Ballroom
Fireball
Highball

Answer 2: All.

Carryall
Allover
Allspice

Answer 3: Wall.

Wallpaper
Walleyed
Stonewall

Answer 4: Sun.

Sunbathe
Sunbaked
Sunup

Answer 5: torrent

hashish
tacit

Answer 6: aspidistra

tyrant
heath

Answer 7: tantamount

polyp
ephedrine

Answer 8: trident

plump
hitch

Answer 9: Do not talk Arabic in the house of a Moor.

Don't imitate the fly before you have wings.

Answer 10: Don't look a gift horse in the mouth.

Every garden may have some weeds.

Answer 11: Eat well, drink in moderation, and sleep sound, in these three good health abound.

Epigrams succeed where epics fail.

Answer 12: Every ass loves to hear himself bray.

Even a small thorn causes festering.

Answer 13: The bird watcher was sitting in an aeroplane about 20,000 feet above the ground when he unexpectedly saw the bird get sucked into the engine. The engine stopped working and the plane crashed, killing him and all other passengers.

Answer 14: The man had fallen out of an aeroplane. The unopened package was a parachute that did not open.

Answer 15: Sycophant

Answer 16: Allude

5-4-3-2 : dull

1-2-3 : all

5-6-2-3 : dell

Answer 17: 66.67%

Let Amu's salary be x, Bittu's be y and Chotu's be z.

$$x = 0.75y$$

$$y = 0.8z$$

$$\text{so, } x = 0.75 * 0.8z = 0.6z$$

Thus, Amu's salary is 60% of Chotu's salary.

Thus, Chotu's salary is greater than Amu's salary by $40/60 * 100 = 66.67\%$.

Answer 18: Her savings increased by 6.25%.

Let Rani's expenditure be 5x and her savings be 4x. Hence, her initial income = 9x.

Her new income after the appraisal = 9.90x and her expenditure increases to 5.65x.

Hence, her new savings = $9.90x - 5.65x = 4.25x$

So, percentage change in the savings = $[(4.25x - 4x)/4x] * 100 = (0.25/4) * 100 = 6.25\%$

Answer 19: Ali and Cali will earn profits of Rs. 12500 and Rs. 9000 respectively.

Let T1, T2 and T3 be the duration of investments for Ali, Bali and Cali and I1, I2 and I3 be their respective monetary investments.

So, they should have their profits in the ratio $T1 * I1 : T2 * I2 : T3 * I3$.

$$\text{Now } T1 : T2 : T3 = 10 : 12 : 4 = 5 : 6 : 2$$

$$\text{and, } I1 : I2 : I3 = 5 : 7 : 9$$

Therefore, the ratio of their profits will be:

$$\text{Ali: Bali : Cali} = 5 * 5 : 7 * 6 : 9 * 2 = 25 : 42 : 18$$

Now, Bali's profit was 21000.

$$\text{So, Ali's profit} = (25/42) * 21000 = \text{Rs. 12500}$$

$$\text{and, Cali's profit} = (18/42) * 21000 = \text{Rs. 9000}$$

Answer 20: 48 km.

It took 3 hours for the friends to meet; so the pigeon flies for 3 hours at 16 km/hr which is equal to 48 km.

Answer 21: 43.75%.

Initially, he earns a profit of 25% as he sells off 800 gms as 1 kg.

To add to that, he marks up the price per kg by 15%.

$$\text{So, net profit} = 25 + 15 + (25 * 15 / 100) = 43.75\%$$