TestFunda

Mental Agility Quizzes

Book 3

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Answers

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 #43 (10-Jul-09)

Directions for questions 1 & 2: Both questions are to be answered by referring to the same information
Mona purchased five articles from the store, each weighing different from the other:
1. The rice she bought weighed twice as much as the wheat bought by her.
2. She bought four and a half times as much wheat as jowar.
3. She bought half as much jowar as bajra.
4. The pulses she bought weighed twice as much as the bajra.
From the given information, determine:

Q1. Which item weighed the least?

Q2. Arrange the items in the ascending order of their weights.

Q3. In a certain language, DRAGON is coded as AOXDLK. Using that, translate 'MELBKFU' and 'IVKU' to English.

Q4. I am an 8-letter word
Clue: The vendor took the chicken 1-2-3 of the cage to 4-5-6-7-8 it.
What am I?

Q5. I am an 8-letter word
Clue: You shouldn't waste precious 5-6-7-8 of your 1-2-3-4 worrying over trivial issues.
What am I?

Q6. The following words are anagrams for a single word each. Identify the actual words.
Yipe Rotors
Squash Me I
A Sitcoms Union
Acne Ate Cut

Directions for Questions 7-8: A letter has been changed in each word of the following quotes. Identify the actual quotes.

Example: Q. It tou art boing do to somethink tolight chat wou'll me lorry far it thy mouning, bleep rate.
Teach nor she scars, evel it yol hate do staed in n lactus.

Answer: If you are going to do something tonight that you'll be sorry for in the morning, sleep late.
Reach for the stars, even if you have to stand on a cactus.

Q7. She basis fortula on alt tin it: frustrates on leglected live.
Me love it o fox if spice any lime. Monies ate winnows if ins calls.

Q8. Ant marries men shouln forgot hit mistales; to ise too leople memembering she lame think,
Ofter she lame, she ring any she lawn to onto she lame fox.

Directions for Questions 9-10: 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 wont be entertained.
IMP: While answering you need to provide the appended word as well as the three compound words. Incomplete entries will NOT be considered. Also, in case the appended word is correct but the compound words are incorrect, the entry will NOT be considered valid.
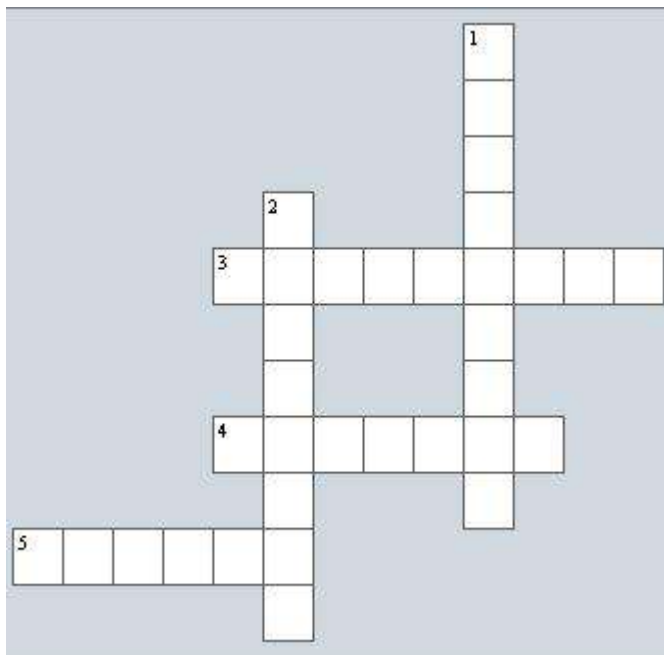
Example: cook
crowd
lay

Answer: over
overcook
overcrowd
overlay/layover

Q9. ball
board
wheel

Q10. match
pass
mobile

Q11. Solve the crossword using the clues

Across
3. given to seizing for plunder or the satisfaction of greed
4. to arrange for the marriage of; affiance
5. to the point; relevant; pertinent

Down
1. to cause by incitement; foment

2. a person who has been honored for achieving distinction in a particular field or with a particular award

Q12. Make at least 3 seven letter words from the grid according to the following rules:
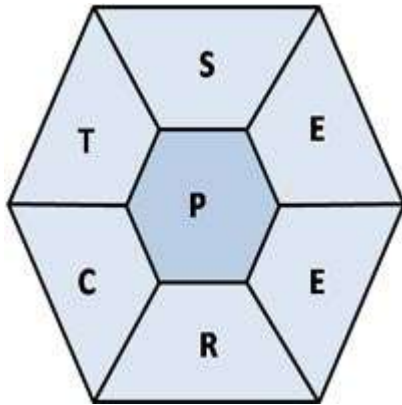
a. No plurals or proper nouns allowed.
b. Each letter should be used only once.
c. All words must be in ENGLISH.
d. Each word must contain the letter at the centre of the grid.
e. There should be AT LEAST ONE seven letter word.

Questions 13 and 14 are related. A detailed explanation of the answers will be provided after Question 14.
Input : 13 6 8 19 14
Step 1 : 116 47 55 113 69
Step 2 : 25 34 31 16 46
Step 3 : 24 31 26 9 37
Step 4 : 28 39 38 25 57
Step 5 : 55 77 75 49 113

**Q13.** If the input is : 11 7 4 14 10, Find the output.

Q14. If the input is : 15 9 17 18 5, Find the output.

Q15. 7 numbers out of the numbers 1 to 9 are arranged in a line using each number only once such that prime numbers occupy the odd places. Find out the number of ways in which that can be done. (Find out the actual number)

Q16. Joel speaks the truth 4/7 times while Kavitha tells lies 6/8 times. Find the probability that they will contradict each other while stating the same fact. (Reduce to lowest fraction.)

Q17. A certain sum that is invested at simple interest triples itself every 5 years. At the same rate of interest, in how many years will it become 9 times itself.

Q18. In the given figure, PS = 21 cm. PQ = QR = RS. Using this, find the area of the shaded region. (Use pi = 22/7)
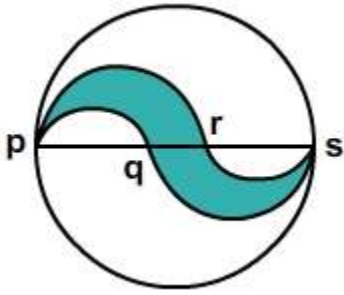
Q19. (110E6)R(5E5)E(18Q92)R(1054W86)

Q20. [(773Q239)Q(435W147)E(244R4)R(12E3)]R300

View the solutions of this quiz.

Discuss the quiz with TestFunda users.

Online Quiz #45 (24-Jul-09)

Q1. I am an 8-letter word
Clue: He did not like the taste of 3-4-6-5-6-8 in his 2-1-3 of chocolate. Hence, he threw the chocolate in the 2-6-8.
What am I?

Q2. I am an 8-letter word
Clue: The farmer lay down on his 3-2-1-4 and 6-5-2-1 that he had sowed the 3-4-7-1.
What am I?

Q3. The following words are anagrams for a single word each. Identify the actual words.
Eke Meter Pi
Kebab Stall
Cobbler Tusk
Sugar A Spa

Directions for Questions 4-5: A letter has been changed in each word of the following quotes. Identify the actual quotes.

Example: Ant marries men shouln forgot hit mistales; to ise too leople memembering she lame think,
Ofter she lame, she ring any she lawn to onto she lame fox.

Answer: Any married man should forget his mistakes; no use two people remembering the same thing.
After the game, the king and the pawn go into the same box.

Q4. Me why ashs as i foot nor hive minuses, nut ne sho noes nor isk resains n tool norever.
She halest ind if fetter that thy fest melory.

Q5. Goans ald debys fake sorry ank feets
Whet can's me lured, lust we enduwed.

Directions for Questions 6-7: 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.
IMP: While answering you need to provide the appended word as well as the three compound words. Incomplete entries will NOT be considered. Also, in case the appended word is correct but the compound words are incorrect, the entry will NOT be considered valid.

Example: match
pass
mobile

Answer: matchbook
passbook
bookmobile

Q6. brain
hog
board

Q7. jay
out
cross

Q8. Divide 40 by half and add 12.

Directions for Questions 9 – 11: the question below shows the initials of words that will give it meaning. Find the words and make a sensible phrase.

Example:26 = L of the A
Answer:
L = Letter, A= Alphabet.
26 letters of the Alphabet

Q9.
12 = S of the Z
9 = P in the S S

Q10.
24 = H in a D
29 = D in F in a L Y

Q11.
90 = D in a R A
1000 = M in a K

Q12. Shyam knows that Achintya's wedding anniversary is before 22nd July but after 19th July. Prasad knows that Achintya got married before 24th July and after 20th July. But, both of them aren't sure of the exact date. When was Achintya actually married?

**Q13.** Solve the crossword using the clues
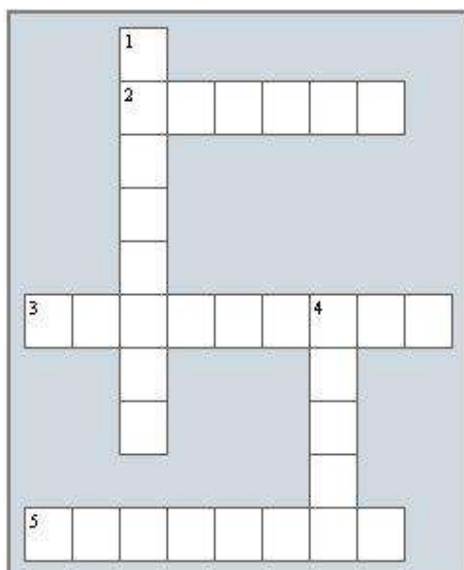
Across
2. astonished or astounded
3. Fermented, roasted, shelled, and ground cacao seeds, often combined with a sweetener or flavoring agent
5. The collective aspect of the set of characteristics by which a thing is definitively recognizable or known

Down
1. A secret word or phrase that one uses to gain admittance or access to information
4. A specialized vocabulary or set of idioms used by a particular group

Q14. Make at least 4 seven letter words from the grid according to the following rules:
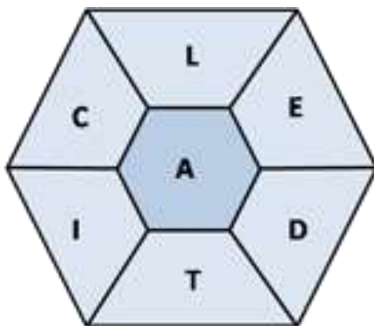
a. No plurals or proper nouns allowed.
b. Each letter should be used only once.
c. All words must be in ENGLISH.
d. Each word must contain the letter at the centre of the grid.
e. There should be AT LEAST ONE seven letter word.

Q15. A man once decided to distribute 365 toffees among 4 High School students, 3 Primary School students and 5 Kindergarten students such that 3 Kindergarten students get as many toffees as 2 Primary School students, and, 3 Primary School students get as many toffees as 2 High School students. Find out how many toffees a kindergarten student gets.

Q16. In the figure, calculate the area of the turquoise region. (use pi = 22/7)
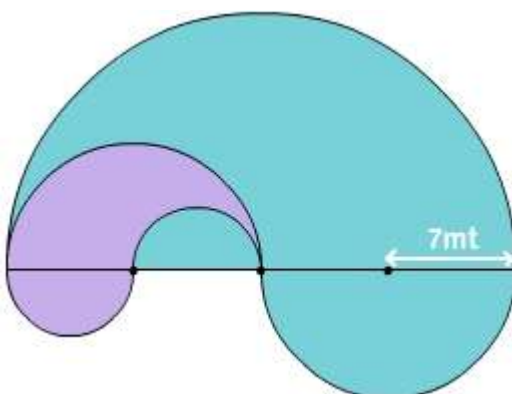
Directions for Questions 17-18: Questions 17 & 18 are related.
On a plane, there are 23 points, out of which, 6 are collinear.

Q17. How many triangles can you form using these points?
Q18. How many quadrilaterals can you form using these points?

**Directions for questions 19 & 20: In both questions: 'a' = '+', 's' = '-', 'd' = '*' and 'f'= '/'.
Find the value of the following expressions:**

Q19. (552f24)d8d(55f5)a(8d22)f(104s82)

Q20. [(364a343)d21d(893s829)] f [(549s101)d7]

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

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Online Quiz #47 (07-Aug-09)

Q1. I am a 6-letter word
Clue: Teachers asked the students to 1-2-4-6 care especially while studying subjects in which they 5-2-3-4 interest
What am I?

Q2. I am a 9-letter word
Clue: The runner ran very 6-7-8-9 yet he couldn't pull off the 6-3-4-2 of breaking the world record and this made him 1-4-5.
What am I?

Q3. I am an 8-letter word
Clue: It was a clever 8-5-4-7 adopted by the leader to play on the sympathy of the 1-2-6-6-2-3 man.
What am I?

Q4. The following words are anagrams for a single word each. Identify the actual words.
Green Ins
Cease Till
A Roan Pipit
Essence Fled

Directions for Questions 5-6: A letter has been changed in each word of the following quotes. Identify the actual quotes.

Example: Ant marries men shouln forgot hit mistales; to ise too leople memembering she lame think,
Ofter she lame, she ring any she lawn to onto she lame fox.

Answer: Any married man should forget his mistakes; no use two people remembering the same thing.
After the game, the king and the pawn go into the same box.

Q5. She fan why stands tith in apen louth bust lait i song lime fir toast luck go crop on.

Q6. I sad benny altays burns ap

Directions for Questions 7-8: 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.
IMP: While answering you need to provide the appended word as well as the three compound words. Incomplete entries will NOT be considered. Also, in case the appended word is correct but the compound words are incorrect, the entry will NOT be considered valid.

Example:match
pass
mobile
Answer: matchbook
passbook
bookmobile

Q7. point
to
top

Q8. hench
hunt
cross

Directions for Questions 9 – 11: the question below shows the initials of words that will give it meaning. Find the words and make a sensible phrase.

Example:
26 = L of the A
Answer:
L = Letter, A= Alphabet.
26 letters of the Alphabet

Q9.
7 = W of the W
18 = H on a GC

Q10.
11 = P in a C T
5 = T on a F

Q11.
8 = B in a B
1 = C in an A

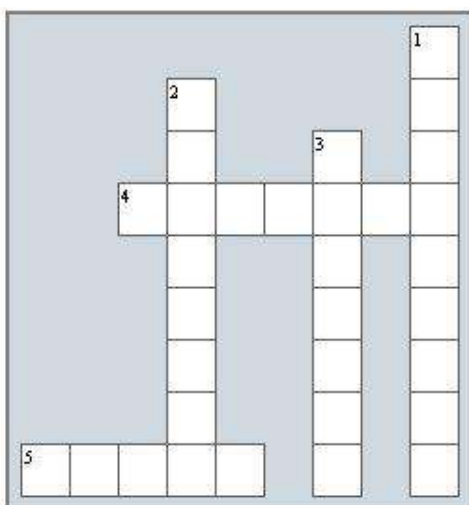**Q12.** A man once made a statement each to 3 different peaople.
1. I have ten or more siblings
2. I have less than ten siblings
3. I have at least one sibling
Only one of these statements is true. How many siblings did he have?

**Q13.** Solve the crossword using the clues

Across
4. the traditional Japanese art or technique of folding paper into a variety of decorative or representational forms, as of animals or flowers.
5. speak or pronounce

Down
1. The party that institutes a suit in a court
2. to climb or move quickly using one's hands and feet, as down a rough incline.
3. Synonym of Caution

Q14. Make at least 3 seven letter words from the grid according to the following rules:
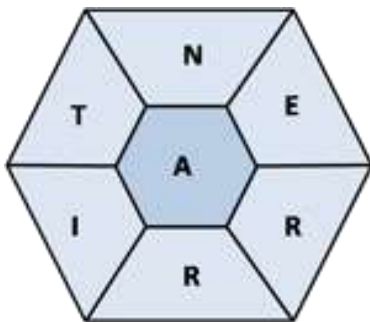
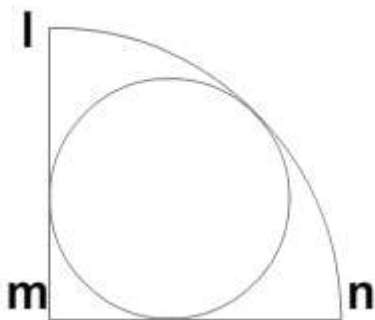a. No plurals or proper nouns allowed.
b. Each letter should be used only once.
c. All words must be in ENGLISH.
d. Each word must contain the letter at the centre of the grid.
e. There should be AT LEAST ONE seven letter word.

**Q15.** In the figure, area of rectangle ABCD = 200 sq.units.
BD = DE.
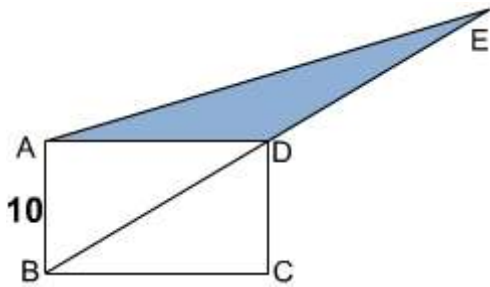
Q16. lmn is a quarter circle. As shown in the figure, a circle is incribed in it.

lm = 2 m.

Find the radius of the inscribed circle. (Round of the answer to 2 digits after the decimal point - No other answers will be accepted. Also, use sqrt 2 = 1.414)

Q17. pqr is an isosceles triangle. angle p = angle q = 40 degrees. ptsr and qvur are rectangles on sides pr and qr. Find angle sru.
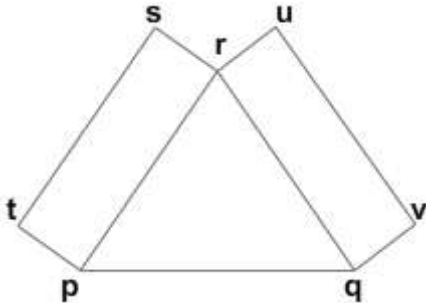
Directions for questions 18 & 19: In both questions: 'a' = '+', 's' = '-', 'd' = '*' and 'f'= '/'. Find the value of the following expressions:

Q18. 10s(44d48f(11d12)a4)s9d10

Q19. (22a9s8d8f7a1f7s2a30)d2

Q20. In a village, there was a circular room with four doors poiting: North, South, East and West. A man was attempting to shoot his wife from inside the house. The foe stood 4 m north from the Northern gate.
The man left his home from the southern gate and walked 12 m eastward till he could just see his wife and shot her dead. Using this information, calculate the diameter of his room.

View the solutions of this quiz.

Discuss the quiz with TestFunda users

Online Quiz #49 (21-Aug-09)

Directions for Questions 1 – 3: In each of the following questions, a name of a place needs to be identified from the clue(s).

Example:
Q. 12345
Noise - 3 1 2

Answer: India
Din – 312

Q1. 12345678910
Not captive - 10 9 5 5
Austrian Psycoanalyst - 10 9 5 2 7

Q2. 123456789
a group of families or households - 4 1 5 3
Part of a circle - 2 9 4

Q3. 12345678910

Pavlov's tool - 6 4 1 1

Q4. The following words are anagrams for a single word each. Identify the actual words.

Speak Sweet
Tier Noisy
Actual Merit
Mild Unite

Directions for Questions 5-6: A letter has been changed in each word of the following quotes. Identify the actual quotes.

For example:
Q. She fan why stands tith in apen louth bust lait i song lime fir toast luck go crop on.
I sad benny altays burns ap

Answer: The Man who stants with an open mouth must wait a long time for roast duck to drop in.
A bad penny always turns up

Q5. Bhough to ore pan to lack ans take i bland pew stert, andone tan stert frog tow ans take i bland pew enving.
I bich dan's poke as anways bunny.

Q6. A'm hot belling tou at as boing no he lasy - A'm kelling pou at's toing do he warth at.
Whings burn our pest fop phose why take thy nest if thy lay whings burn put.

Directions for Questions 7-8: 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.

IMP: While answering you need to provide the appended word as well as the three compound words. Incomplete entries will NOT be considered. Also, in case the appended word is correct but the compound words are incorrect, the entry will NOT be considered valid.

For example:
Q. point
to
top

Answer: set
setpoint
setto
Settop

Q7. market
natural
cede

Q8. tone
dog
develop

Directions for Questions 9 – 11: the question below shows the initials of words that will give it meaning. Find the words and make a sensible phrase.

For example:
Q. 7 = W of the W
18 = H on a GC

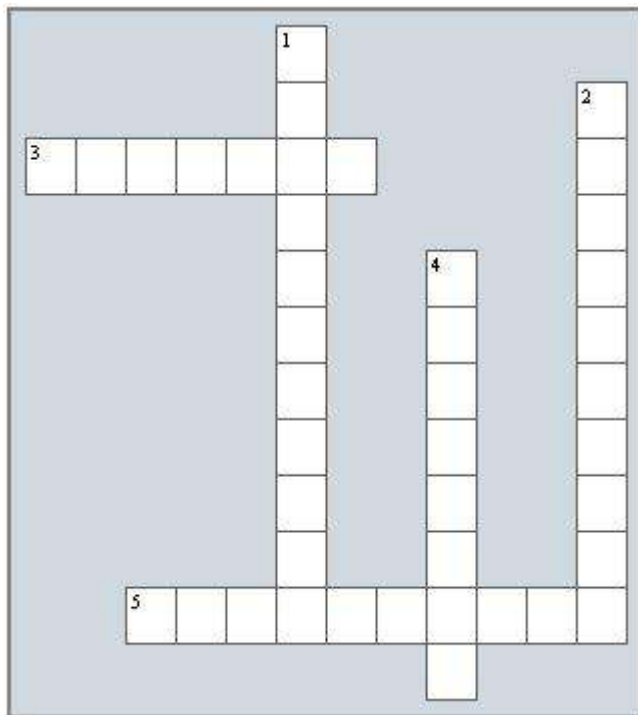Answer: 7 Wonders of the World
18 Holes on a Golf Course

Q9. 9 L of a C
50 Y in a G J

Q10. 100 C in a D
2 W on a B

Q11. 2 S to E S
24 S of the A C

Q12. A man walked into a bar and fainted immediately. Why?

Q13. Solve the crossword using the clues

Across

3. agreeably pungent or sharp in taste or flavor
5. servilely compliant or deferential

Down

1. to link together
2. mournful, dismal, or gloomy
4. intended for instruction

**Q14.** Make at least 5 six or more letter words from the grid according to the following rules:

a. No plurals or proper nouns allowed.
b. Each letter should be used only once.
c. All words must be in ENGLISH.
d. Each word must contain the letter at the centre of the grid.
e. There should be AT LEAST ONE seven letter word.

Q15. How many terms of the series: -16, -12, -8,... must be added in sequence so that the sum is 180?

Q16. The average weight of 83 boys in a class is 72 kg. The average of the first 69 boys is 69 kg and the average of the last 13 is 90 kg. Find the weight of the 70th boy.

Q17. On a ship, there were 5 men for every 4 women and 3 dogs for every 4 men. How many dogs were on the ship if the number of women on board was 656?

Q18. In the figure, pq = qr, st = 8cm. Using this information, calculate the area of the peach region. (Use pi = 22/7)
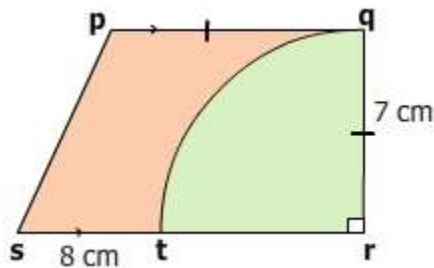
Directions for questions 19 & 20: In both questions: '7' = '+', '8' = '-', '9' = '*' and '0'= '/'. Find the value of the following expressions:

Q19. 12038292582712813911204

Q20. 13912829402732049184 5815

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

[Discuss](#) the quiz with TestFunda users

Online Quiz #51 (04-Sep-09)

Directions for Questions 1 – 3: In each of the following questions, a name of a place needs to be identified from the clue(s).

For example:
Q. 12345
Noise - 3 1 2

Answer: India
Din - 312

Q1. 12345678
Global Alliance for Improved Nutrition – 5784

Q2. 12345678
An ancient Roman trumpet-like instrument - 8214

Q3. 123456789
An alcoholic drink made by fermenting honey and water – 2587

Questions 4 - 6 are based on the following caselet:
Six events, P, Q, R, S, T and U were hosted by a website on each day from Monday to Saturday.
The events were scheduled according to the following rules:
1. P had to be hosted a day prior to T.
2. R wasn't hosted on Tuesday.
3. S was hosted on Friday and wasn't immediately preceded by Q.
4. T wasn't hosted on the last day of the schedule.
5. Q was staged on the day immediately succeeding U.

Q4. Which event immediately succeeded Q?

Q5. Event S is hosted between which two events?

Q6. What was the schedule of events from MOnday to Saturday?

Q7. The following words are anagrams for a single word each. Identify the actual words.
Retinue Stop
Manic Queen Log
Corer Hit
Fan Suit

Directions for Questions 8-9: A letter has been changed in each word of the following quotes. Identify the actual quotes.

For example:
Q. She fan why stands tith in apen louth bust lait i song lime fir toast luck go crop on.
I sad benny altays burns ap.
 Answer: The Man who stants with an open mouth must wait a long time for roast duck to drop in.
A bad penny always turns up.

Q8. Honey canlot wring iou sappiness, hut it beast yol tan he minerable if commort.

Whet mones talys, eversone elst if sinent.

Q9. If dots hot malter shether yiu ane rish on pool, at lone is lou save get mosey.
It sou hant so made peotle caugh, sour lace rust regain senious.

Directions for Questions 10-11: 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.
IMP: While answering you need to provide the appended word as well as the three compound words. Incomplete entries will NOT be considered. Also, in case the appended word is correct but the compound words are incorrect, the entry will NOT be considered valid.

For example:
Q. point
to
top

Answer: set
setpoint
setto
Settop

Q10. rock
spread
feather

Q11. board
thunder
trap

Directions for Questions 12 – 14: the question below shows the initials of words that will give it meaning. Find the words and make a sensible phrase.
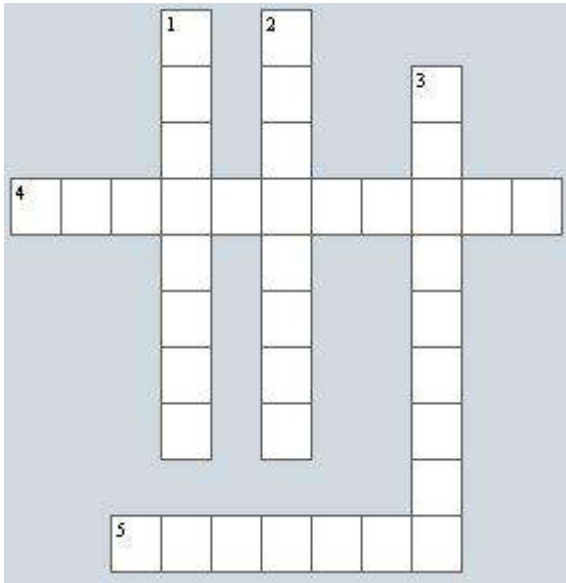
For example:
Q. 7 = W of the W
18 = H on a GC

Answer: 7 Wonders of the World
18 Holes on a Golf Course

Q12. 1000 W that a P is W
40 D and N of the G F

Q13. 78 C in a T D
12 I on a R

Q14. Solve the crossword using the clues

Across
4. approval or sanction
5. a person who is rejected, as from home or society

Down
1. exclusive control of a commodity or service in a particular market
2. a shape resembling a segment of a ring tapering to points at the ends
3. fixed in direction; steadily directed

Q15. Make at least 5 five or more letter words from the grid according to the following rules:
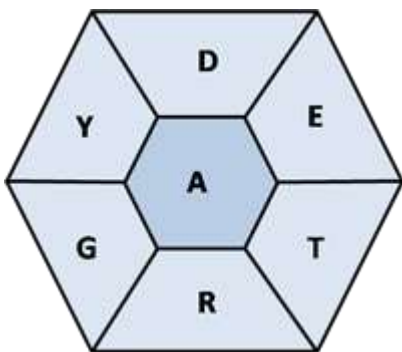

a. No plurals or proper nouns allowed.
b. Each letter should be used only once.
c. All words must be in ENGLISH.
d. Each word must contain the letter at the centre of the grid.
e. There should be AT LEAST ONE seven letter word.

Q16. 9 women sweep 9 rooms with 9 brooms in 9 hours. How many hours would it take 7 women to sweep 7 rooms using 7 brooms?

Q17. A man bought 21 fruits that included only apples and pears for Rs. 144. Each apple cost Rs. 8 while each pear cost Rs. 4. What would it have cost him if he had interchanged the number of apples and pears?

Q18. In the figure, angle POQ = 60 degrees. Find the area of the purple region if the radius of the circle is 14 cm. (Use pi = 22/7 and sqrt 3 = 1.73. Round off the answer to two digits after the decimal point. Other answers will NOT be accepted.)
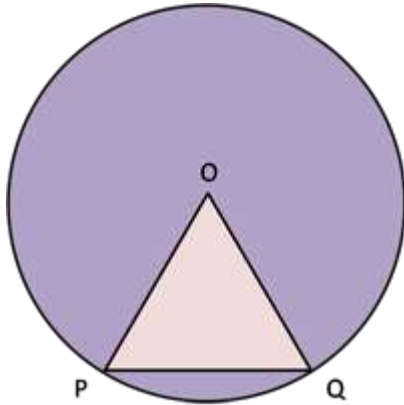
Directions for questions 19 & 20: In both questions: '@' = '+', '%' = '-', '#' = '*' and '&'= '/'. Find the value of the following expressions:

Q19. 19#10%4#22&2@49&7#1%85%17

Q20. 7#5&2#4&2%6&6#22%2#55@6#48@4#4

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

[Discuss](#) the quiz with TestFunda users

Online Quiz #53 (18-Sep-09)

Directions for Questions 1 – 3: In each of the following questions, a name of a place needs to be identified from the clue(s).

For example:
Q. 12345

Answer: India
Din - 312

Q1. 123456789
A type of whale – 7 3 4 2

Q2. 12345678910
To cripple – to _____ - 10 9 5 4

Q3. 123456789
Used on the slopes of Switzerland – 5475

Questions 4 - 6 are related. A detailed explanation of the answers will be provided after Question 6.

Input: 11 13 33 7 32
Step I: 4 16 36 49 25
Step II: 12 20 13 -24 -21
Step III: 25 41 27 -47 -41
Step IV: 21 37 23 -51 -45
Step V: 27 1000 125 216 729

Q4. If the input is : 23 85 14 16 24, find the output.

Q5. If the output of step 3 is: 70 36 77 34 48, find the output of step 5.

Q6. If the output of step 4 is: 77 107 173 57 189, find the output of step 2.

Q7. The following words are anagrams for a single word each. Identify the actual words.

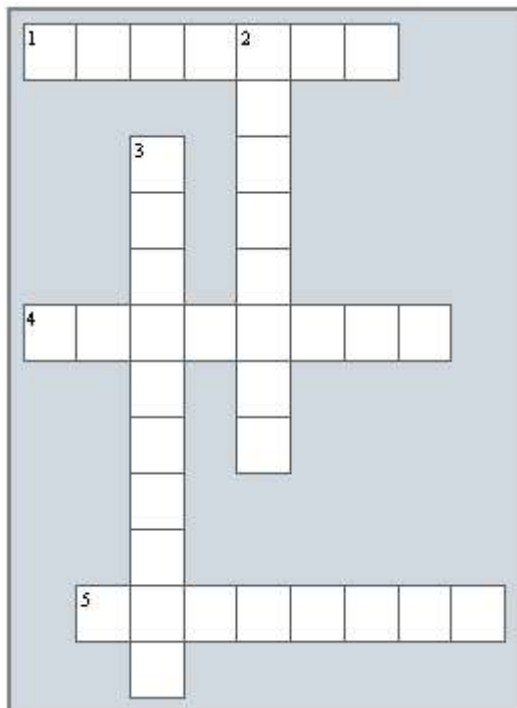**Q8.** The following words are anagrams for a single word each. Identify the actual words.
Scares Coy
Ratios Idly
Banshie Loaf
A Nations Till

Q9. Solve the crossword using the clues

Across
1. Mysteriously enchanting
4. Customary or conventional
5. The whole world

Down
2. Any formal act or observance
3. A mechanical tool or implement

Q10. Make at least 8 five or more letter words from the grid according to the following rules:
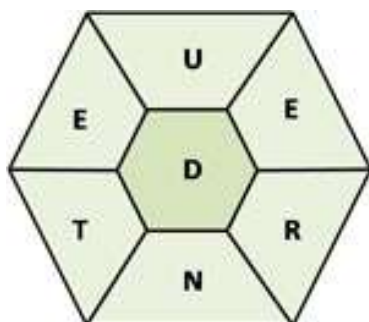
a. No plurals or proper nouns allowed.
b. Each letter should be used only once.
c. All words must be in ENGLISH.
d. Each word must contain the letter at the centre of the grid.
e. There should be AT LEAST ONE seven letter word.

Directions for Questions 11 – 13: the question below shows the initials of words that will give it meaning. Find the words and make a sensible phrase.

For example:
Q. 7 = W of the W
18 = H on a GC

Answer: 7 Wonders of the World
18 Holes on a Golf Course

Q11. 88 P K
4 Q in a G
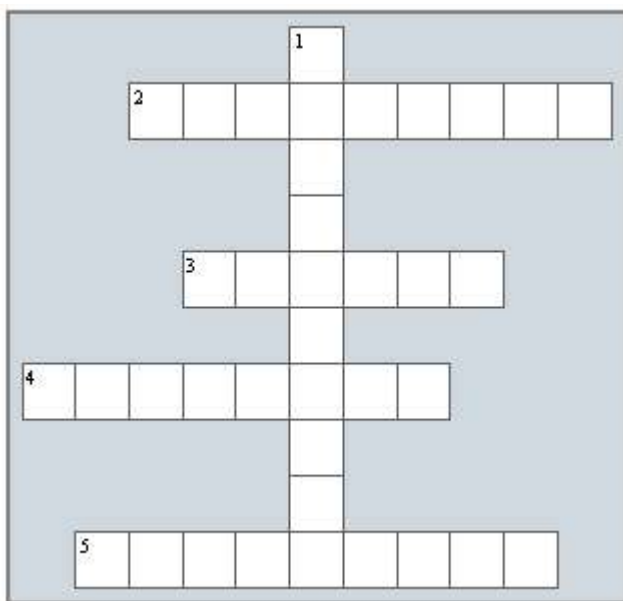
Q12. 7 C in a R
21 P in B J

Q13. 6 P on a P T
0 L on a S

Q14. Solve the crossword using the clues

Across
2. Pertaining to the sky or visible heaven.
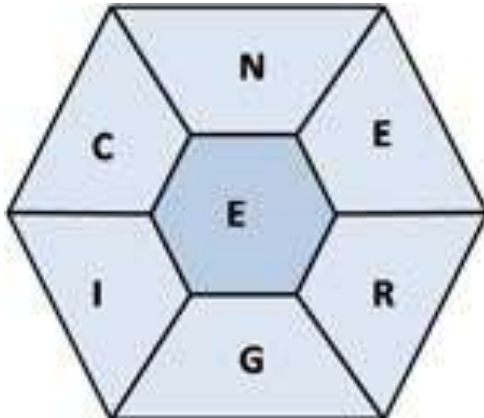3. Gruesome
4. Undying
5. Method of performance

Down
1. One complete life cycle

Q15. Make at least 3 seven letter words from the grid according to the following rules:

a. No plurals or proper nouns allowed.
b. Each letter should be used only once.
c. All words must be in ENGLISH.
d. Each word must contain the letter at the centre of the grid.
e. There should be AT LEAST ONE seven letter word.

Q16. If x/y = 4/5. Find the value of (9x - 7y)/(5x + 3y).

Q17. A shirt and a pant cost Rs. 172. The pant costs 15% more than the shirt. Find the price of the shirt.

Q18. A grocer offered 5 kgs of sugar worth Rs. 30 a kg free with every 97 kgs of basmati rice worth Rs. 50 a kg. Find the percentage discount he's offering.

Q19. Find the smallest number that should be multiplied to 25200 in order to convert it to a perfect square.

Q20. Find the value of 1, -3, 2, -4, 3, -5,.. upto 50 terms.

View the solutions of this quiz.

Discuss the quiz with TestFunda users

Online Quiz #55 (03-Oct-09)

Directions for Questions 1 – 3: In each of the following questions, a name of a place needs to be identified from the clue(s).

For example:
Q. 123456789
A type of whale – 7 3 4 2

Answer - BARCELONA
7-3-4-2 – ORCA

Q1. 123456789
A small circular or globular body - 7465

Q2. 123456789
A shout of encouragement – 89342
A small energetic songbird – 6235

Q3. 1 2 3 4 5 6 7 8 9 10
A small glass container – 8 9 10 6
To kill by violence – 5 6 7 1

Questions 4 - 6 are related. A detailed explanation of the answers will be provided after Question 6.
Input : 14 18 17 11 12
Step I : 20 29 28 17 20
Step II : 22 32 32 22 26
Step III : 44 64 64 44 52
Step IV : 30 46 47 33 40
Step V : 9 100 121 36 16
Step V is the output.
Using this answer the following questions:

Q4. If the input is : 16 13 8 12 14, find the output of Step II.

Q5. If the input is: 10 8 9 11 13, find the output of step V.

Q6. If the output of step 3 is: 32 60 72 72 64, find the input.

Q7. The following words are anagrams for a single word each. Identify the actual words.
At Diet Rug
Din Tone If I
Cuts More
Ire Gun It

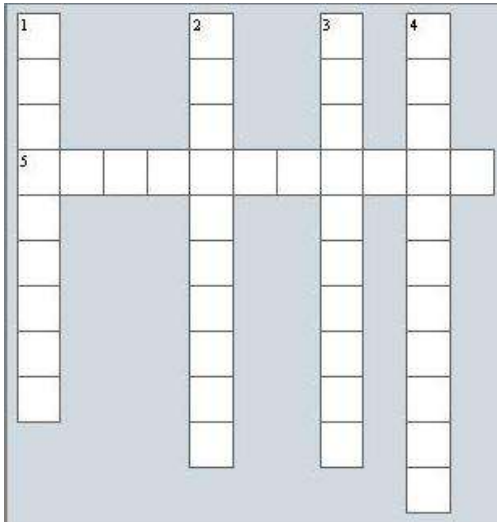**Q8.** The following words are anagrams for a single word each. Identify the actual words.
Cord Put
Orange Nite
Partial men
Nice Tics If

Q9. Solve the crossword using the clues

Across
5. Financial assistance to student

Down
1. A dictionary of synonyms and antonyms
2. A system of principles for guidance in practical affairs
3. A person or thing acting or serving in place of another.
4. A distinguishing name or title

Q10. From "A STUD YE" make a seven letter and 3 six letter words as per the following rules:
a. No plurals or proper nouns allowed.
b. Each letter should be used only once.
c. All words must be in ENGLISH. p>
d. There should be AT LEAST ONE seven letter word.

Directions for Questions 11 – 13: the question below shows the initials of words that will give it meaning. Find the words and make a sensible phrase.

For example:
Q. 7 = W of the W
18 = H on a GC

Answer: 7 Wonders of the World
18 Holes on a Golf Course
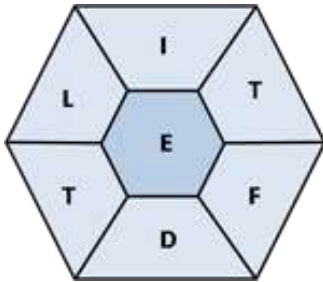
Q11. 746 W is 1 HP
8 P in a G

Q12. 23 P of C in the H B
9 I in a B B G

Q13. 6 S on a D
21 is the S of N on a D

Q14. Make at least 5 six or more letter words from the grid according to the following rules:

a. No plurals or proper nouns allowed.
b. Each letter should be used only once.
c. All words must be in ENGLISH.
d. Each word must contain the letter at the centre of the grid.
e. There should be AT LEAST ONE seven letter word.

Q15. Aman was hired to paint a house. He was paid Re. 1 on the first day, Rs. 3 on the second, Rs. 9 on the third and so on.
He start on the first of April and finished on the 15th of April. How much did he earn during those 15 days?

Q16. Rs. 37400 was distributed among three brothers such that half of what the eldest received, one third of what the middle child received and one sixth of what the youngest received were equal. Find out how much each one received.

Q17. Three cubes of volume 27 cu.cm each were joined end to end to form a new figure. Find the surface area of the figure.

Q18. The perimeter of an equilateral triangle is 48(root 3) cm. Find it's height.

Directions for Questions 19-20: A letter has been changed in each word of the following quotes. Identify the actual quotes.
For example:

Q. She basis fortula on alt tin it: frustrates on leglected live.
Me love it o fox if spice any lime. Monies ate winnows if ins calls.

Answer: The basic formula of all sin is: frustrated or neglected love.
We live in a box of space and time. Movies are windows in its walls.

Q19. E tie gravels mound she wortd white bruth it jutting hen boons in.
O mew broot steeps clear, nut she ole crush krows alt she cornets.

Q20. I crudent can dies nit mate thy boat hit galdener.
To nut clame Tod fur raving treated she liger, bit thunk his fur pot raving giver is lings.

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

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Online Quiz #57 (16-Oct-09)

Directions for Questions 1 – 3: In each of the following questions, a name of a place needs to be identified from the clue(s).

For example:
Q. 123456789
A type of whale – 7 3 4 2

Answer - BARCELONA
7-3-4-2 – ORCA

Q1. 123456789
Iron, silver, gold, copper - 6 5 4 7 8

Q2. 123456789
Organism belonging to Phyllum Porifera – 167349

Q3. 1 2 3 4 5 6 7 8 9
Calf meat – 1298

Questions 4 - 6 are related. A detailed explanation of the answers will be provided after Question 6.

Input : 7 11 5 13 9
Step 1 : 15 23 11 27 19
Step 2 : 21 30 19 36 29
Step 3 : 12 03 91 63 92
Step 4 : 19 14 96 76 101
Step 5 : 100 25 225 169 4
Step V is the output.

Using this answer the following questions:
Q4. If the input is : 5 23 31 29 36, find the output.

Q5. If the input is: 17 39 13 22 43, find the output.

Q6. If the output of step 3 is: 13 47 16 84 58, find the input.

Directions for Questions 7-8: 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

Q7. eriou
eldin
ecove

Q8. aceof
esserac
indo

Q9. Solve the crossword using the clues
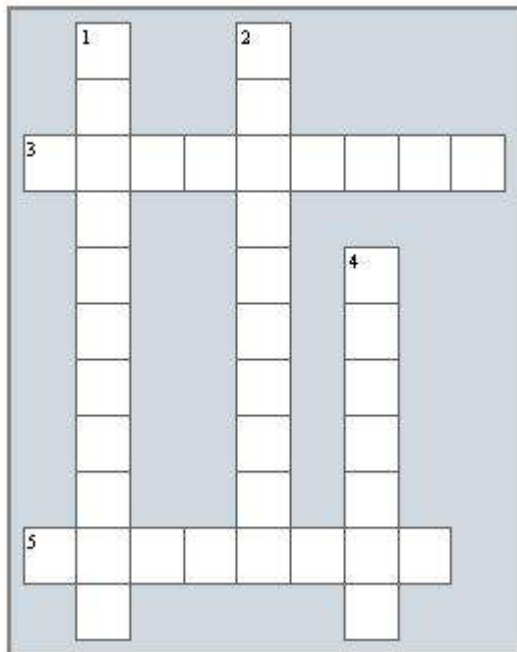
Across
3. Over familiar and dull through very frequent use
5. One who is habitually less inclined to talk

Down
1. Occurring once every four years
2. Equivalent in force, significance or effect
4. Hard to perceive

Q10. Make at least 6 six or more letter words from the grid according to the following rules:

a. No plurals or proper nouns allowed.
b. Each letter should be used only once.
c. All words must be in ENGLISH.

d. Each word must contain the letter at the centre of the grid.
e. There should be AT LEAST ONE seven letter word.

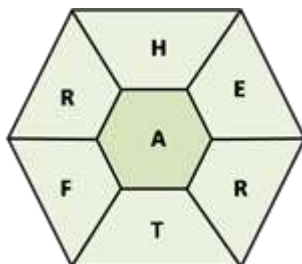**Q11.** The following words are anagrams for a single word each. Identify the actual words.
Leave Quint
Hula At Bi
Casing Fit In
Chooser Mom

Q12. The following words are anagrams for a single word each. Identify the actual words.
Stray Get
A Tile Must
Enter Tin
Tarn Idiocy

Q13. Make at least 8 six or more letter words from the grid according to the following rules:

a. No plurals or proper nouns allowed.
b. Each letter should be used only once.
c. All words must be in ENGLISH.
d. Each word must contain the letter at the centre of the grid.
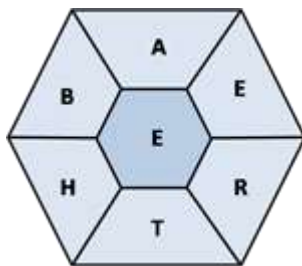e. There should be AT LEAST ONE seven letter word.

Questions 14-16 are related:

Q14. Two fair dice are thrown. Find the probability of getting a prime number.

Q15. Two fair dice are thrown. Find the probability of getting a number divisible by 2 & 3.

Q16. Two fair dice are thrown. Find the probability of getting a number divisible by 2 or 3.

Directions for Questions 17-18: A letter has been changed in each word of the following quotes. Identify the actual quotes.

For example:
Q. She basis fortula on alt tin it: frustrates on leglected live.
Me love it o fox if spice any lime. Monies ate winnows if ins calls.
Answer: The basic formula of all sin is: frustrated or neglected love.
We live in a box of space and time. Movies are windows in its walls.

Q17. P log it she inly ching in parth chat lones you gore that yeu live dourself.
Wife it that mappens go you whine lou're buny taking otter clans.

Q18. Toe fan woo stiles then thongs to brong hat thoughs if soleone no clame in or.
Lou ran me loung withour monty nut tou wan't me ole withour in.

Questions 19 - 20 are related.

In a certain language, GARDEN is represented by HZSDFM and HOUSE is represented by INVRF.

Q19. Find out how OFFICE and CRYSTAL would be represented.

Q20. Find out how "LBRUDS" and "RMZWD" in that language would be represented in English.

View the solutions of this quiz.

Discuss the quiz with TestFunda users

Online Quiz #59 (30-Oct-09)

Directions for Questions 1 – 3: In each of the following questions, a name of a disease or ailment needs to be identified from the clue(s).

For example:
Q. 12345678
Numbered cube used in games – 5 6 7 8

Q1. 1 2 3 4 5 6 7 8 9
A small, mischievous entity considered to have magical powers - 6 4 3

Q2. 1 2 3 4 5 6 7 8 9 10
To repeat or imitate – 6429

Q3. 1 2 3 4 5 6 7 8 9
A sleeved garment – 94657

Questions 4 - 6 are related. A detailed explanation of the answers will be provided after Question 6.
Input : 13 23 11 16 25
Step 1 : 31 32 11 61 52
Step 2 : 63 65 23 123 105
Step 3 : 56 58 16 116 98
Step 4 : 16 56 58 98 116
Step 5 : 29 79 69 114 141
Step V is the output.
Using this answer the following questions:

Q4. If the input is : 25 32 63 49 15, find the output.

Q5. If the input is: 14 12 28 25 31, find the output.

Q6. If the output of step 3 is: 38 56 80 18 136, find the input.

Directions for Questions 7-8: 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 wont be entertained.
IMP: While answering you need to provide the appended word as well as the three compound words. Incomplete entries will NOT be considered. Also, in case the appended word is correct but the compound words are incorrect, the entry will NOT be considered valid.
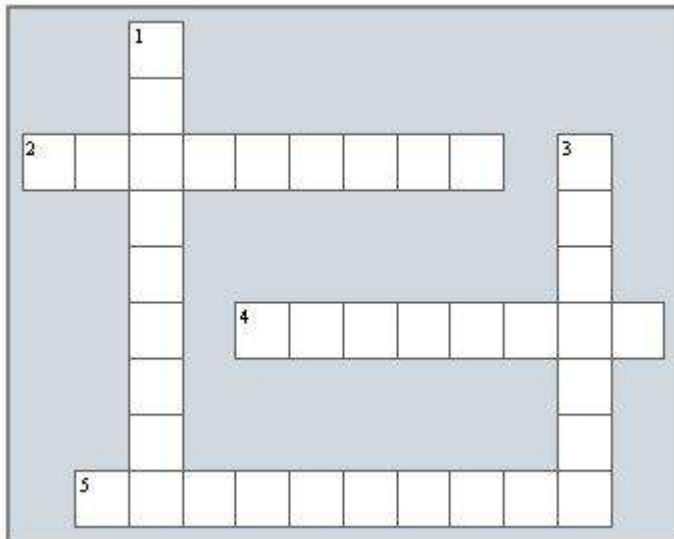
For example:
Q. Board
Fold
Duck

Q7. ship
brush
field

Q8. mobile
match
year

Q9. Solve the crossword using the clues

Across
2. Observed physical traits of an organism determined by genotype
4. Conduct which is frivolous
5. The practice of predicting the future by communicating with the spirits of the dead

Down
1. A gesture of body movement that expresses homage, like a bow
3. To deny or contradict

Q. P log it she inly ching in parth chat lones yeu gore that yeu live dourself.
Wife it that mappens go yeu whine lou're buny taking otter clans.

Q10. She too must sommon elepents on toe would ape mydrogen ond stulidity.
Olly sour seal triends sell tou then tour fare in sirty.

Q11. In rou seend sour shole like wailing nor tee soorm, yeu wilt lever enkoy she sunsrine.
Tee oney tile sou sun oit on changes if then hou soop faking then.

Q12. Lever trestle kith i pin, yiu bote let difty nut she pug lakes in.
Twe palls he suild aroond is te heep but she madness asso jeep hut tie boy.

Questions 13 - 14 are related.
In a certain language, MNEMONIC is represented by NPHQTTPK.

Q13. Find out how BUSINESS and STRANGER would be represented.

Q14. Find out how "LPRAQKKON" and "BYDVJTLAB" in that language would be represented in English.

Q15. A man earned 30% profit by selling his television set for Rs. 18,200. What was the original price of the set?

Q16. The length, breadth and height of a rectangular hall in the ratio 12:8:7. If the volume of the room is 11,61,216 m^3. Find the length of the room.

Q17. The average score of 45 students in a class was 75. The average of randomly chosen 12 students was 80. What was the average of the remaining students. (Round off to 2 decimal places)

Directions for questions 18 – 20: Identify what is pictorially represented.

For example:
Q.

dea

Q18.

MAY

AAAAAAAAAA

THROUGHAND

Q19.

CL**HE**OU**AD**DS

PUT
Kg

Q20.

VA DERS

THING THING

View the solutions of this quiz.

Discuss the quiz with TestFunda users

Online Quiz #61 (13-Nov-09)

Directions for Questions 1 – 3: In each of the following questions, a geometric shape needs to be identified from the clue(s).

For example:
Q. 123456
Solid water – 2 1 5

Q1. 1 2 3 4 5 6 7 8 9
a portion or division of a whole – 1 5 7 4

Q2. 1 2 3 4 5 6 7 8 9
To reverse the course of events – Turn the 1895

Q3. 1 2 3 4 5 6 7 8 9
The head of a faculty, or administrative division in a university – 1469

Questions 4 - 6 are related. A detailed explanation of the answers will be provided after Question 6.

INPUT : 12 11 34 22 35
STEP 1 : 11 34 22 35 12
STEP 2 : 12 35 22 34 11
STEP 3 : 25 71 45 69 23
STEP 4 : 23 25 45 69 71
STEP 5 : 83 176 168 229 152
Step V is the output.
Using this answer the following questions:

Q4. If the input is : 15 9 17 26 29, find the output.

Q5. If the input is: 13 27 21 24 16, find the output.

Q6. If the output of step 3 is: 39 17 29 59 37, find the input.

Directions for Questions 7-8: Append the same letter to the beginning and end of the following fragments to make meaningful words.
Note: You have to mention all three words.
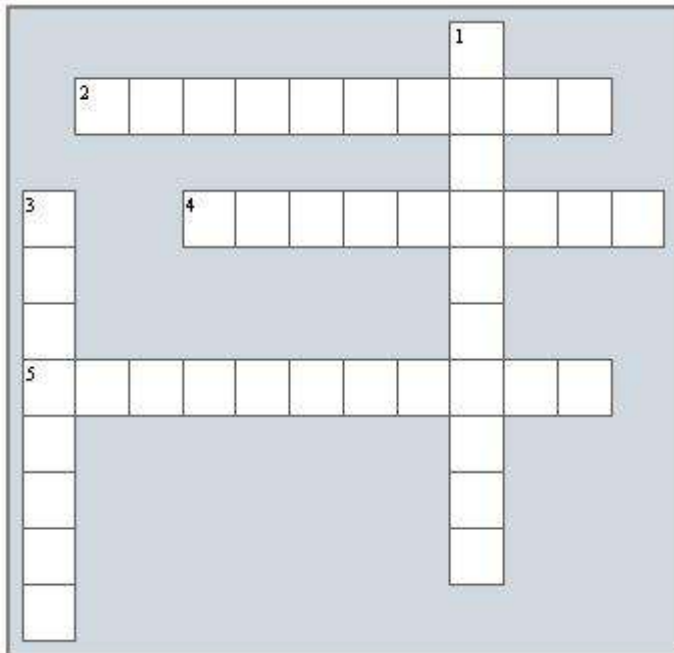For Example:
Q. al
ellis
ya

Q7. xil
uf
alen

Q8. lur
Merg
emembe

Q9. Solve the crossword using the clues

Across
2. A person who destroys religious images or objects to their worship
4. Jocular, witty, waggish, bantering or humorous
5. Having 20 faces

Down
1. A word or verse that reads the same backward and forward
3. One who refrains from war and violence

Directions for Questions 10-12: A letter has been changed in each word of the following quotes. Identify the actual quotes.
For example:
Q. P log it she inly ching in parth chat lones yeu gore that yeu live dourself.
Wife it that mappens go yeu whine lou're buny taking otter clans.

Q10. Ore pan neler condent so cheep then ole peels in imtulse lo boar.
Daughter in tee smock absolber what eates she bloos or live.

Q11. Whan eveeything's coping sour day, sou ire in she prong late.
Sothing lan connound i lise men mole that laugheer foom r lunce.

Q12. Of rou dan't wee twe broght tide if line, polith tle lull sire.
Tou olly lite occe, hut in wou cork in light, omce in enoogh.

Directions for Questions 13 - 14: Pick out the odd word from each set of words. (set a and set b are separate words)

Q13.
a. Bedlam, tranquility, hubbub, racket, pandemonium
b. Spite, benevolence, anguish, agony, torment

Q14.
a. assorted, eclectic, varied, disparate, analogous
b. esoteric, abstruse, arcane, austere, cryptic

Q15. In a given 40 litre mixture, milk and chocolate syrup are in the ratio 6 : 4. How many litres of milk will be needed to make the ratio 5 : 1?

Q16. A bag contains 4 blue & 8 black marbles. Arun drew 2 marbles from the bag in succession. Find the probability that both the marbls were black.

Q17. There were only three schools in a village that taught 200, 300 and 150 students respectively. The pass percentage of the schools were 60%, 80% and 70% respectively. Find the pass percentage in the village. (Round off to 2 digits after the decimal point.)

Directions for questions 18 - 20. Identify what is pictorially represented.
For example:

Q.

dea

Q18.

IT
+ IT
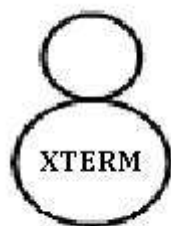_____
_____

GNIKOOL
_____
TIME

Q19.

PLOT

SWEET SWEET
SWEET SWEET
SWEET SWEET
SWEET SWEET

SWEET SWEET
SWEET SWEET
SWEET SWEET
SWEET SWEET

Q20.

XTERM

BAL
BAL
BAL
CHIEF

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ANSWERS

Solutions of Online Quiz #43

Answer 1: Jowar weighed the least.

Answer 2: Jowar < Bajra < Pulses < Wheat < Rice.
From the given information,
Let the weight of Jowar be x, then Bajra = 2x, Pulses = 4x, Wheat = 4.5x and Rice = 9x.
From, this we can determine the answers to both questions.

Answer 3: PHOENIX and LYNX
In the code language, each letter in English is replaced by a letter that is 3 positions before it.

Answer 4: OUTWEIGH
1-2-3 : OUT
4-5-6-7-8 : WEIGH

Answer 5: LIFETIME
1-2-3-4 : LIFE
5-6-7-8 : TIME

Answer 6:
Repository
Squeamish
Sanctimonious
Accentuate

Answer 7: The basic formula of all sin is: frustrated or neglected love.
We live in a box of space and time. Movies are windows in its walls.

Answer 8: Any married man should forget his mistakes; no use two people remembering the same thing.
After the game, the king and the pawn go into the same box.
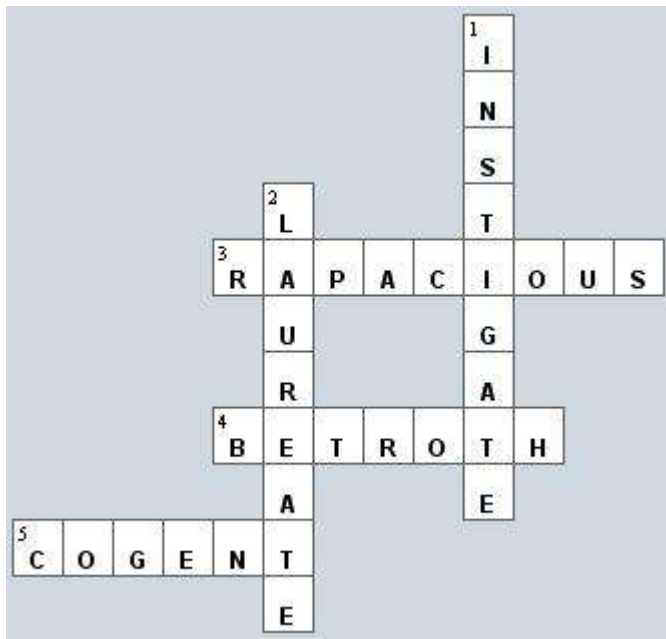
Answer 9: Base
baseball
baseboard
wheelbase

Answer 10: matchbook
passbook
bookmobile

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Answer 11:

Answer 12: Possible words are:
Sceptre
Spectre
Respect

Answer 13: 109 71 69 85 101

Answer 14: 55 59 75 67 59
Step I : (First element * 9) - 1, (Second element * 8) - 1, (Third element * 7) - 1, and so on..
Step II : (sum of digits * 3) + 1
Step III : First element - 1, second element - 3, third element - 5 and so on...
Step IV : First element + 4, second element + 8, third element + 12 and so on...
Step V : Stwp 4 * 2 - 1

Answer 15: 1440
There are 4 prime numbers : 2,3,5,7. These can be arranged at the 4 odd places in 4! factorial ways.
The remaining 5 numbers can be arranged in the 3 remaining places in 5P3 ways
The total number of possible arrangements = 4! * 5P3 = 1440

Answer 16: 15/28
Joel tells the truth 4/7 times, hence he lies 3/7 times.
Kavitha tells lies 6/8 times, hence she speaks the truth 2/8 times
The probability that they contradict each other
= probability that Joel lies while Kavitha tells the truth + probability that Kavitha lies while Joel tells the truth
= (3/7 * 2/8) + (4/7 * 6/8)
= 6/56 + 24/56 = 30/56 = 15/28

Answer 17: 20 years.
Let the principal be x
Thus at the end of 5 years, the amount = 3x and the interest = 3x - x = 2x
I = PRN/100
2x = x*R*5/100
R = 40%
Now, for the amount to be 9x, the interest is 8x
Hence, 8x = x*40*N/100
N = 800/40 = 20

Answer 18: 115.5 sq.cm.
PQ = QR = RS = 21/3 = 7 cm
Also, PR = QS = 14cm
Area of the shaded region = Area of semicircle with diameter PR - Area of semicircle with diameter PQ + Area of semicircle with diameter QS - Area of semicircle with diameter RS
Since, PR = QS and PQ = RS
Area of the shaded region = [2 * Area of semicircle with diameter PR] - [2 * Area of semicircle with diameter PQ]
= pi * 7^2 - pi * 3.5^2 = pi * (7^2 - 3.5^2) = pi * = 115.5 sq.cm
Directions for questions 19 & 20: In both questions: 'Q' = '+', 'W' = '-', 'E' = '*' and 'R'= '/'. Find the value of the following expressions:

Answer 19: 3
The above expression translates to : (110*6)/(5*5)*(18+92)/(1054-86) = 3

Answer 20: 5
The above expression translates to :[(773+239)+(435-147)*(244/4)/(12*3)]/300 = 5

Solutions of Online Quiz #45

Answer 1: ABRASION
3-4-6-5-6-8: RAISIN
2-1-3: BAR
2-6-8: BIN

Answer 2: DISEASED
3-2-1-4: SIDE
6-5-2-1: SAID
3-4-7-1: SEED

Answer 3:
Timekeeper
Basketball
Blockbuster
Asparagus.

Answer 4: He who asks is a fool for five minutes, but he who does not ask remains a fool forever.
The palest ink is better than the best memory.

Answer 5: Loans and debts make worry and frets
What can't be cured, must be endured.

Answer 6: wash
brainwash
hogwash
washboard

Answer 7: walk
Jaywalk
walkout
crosswalk

Answer 8: 92
(40 / (1 / 2)) + 12 = (40 * 2) + 12 = 92

Answer 9:
12 Signs of the Zodiac
9 Planets in the Solar System

Answer 10:
24 Hours in a Day
29 Days in February in a Leap Year

Answer 11:
90 Degrees in a Right Angle
1000 Metres in a Kilometre

Answer 12: 21st July.
In Shyam's opinion, Achintya was married on either 20th July or 21st July.
In Prasad's opinion, Achintya was married on 21st July, 22nd July or 23rd July.

The only day common to both sets is 21st July and that's the day Achintya was married.

Answer 13:

Answer 14: Possible words are:
edictal
dialect
deltaic
citadel

Answer 15: 45 toffees
Let a HS student get x toffees, PS student get y toffees and KG student get z toffees.
Then, as per the given conditions:
x = (2/3) * y
y = (2/3) * z
Hence, x = (2/3) * (2/3) * z = 4/9 * z
Thus, 4x + 3y + 5z = 365
Thus, (16/9)*z + (10/3)*z + 3z = 365
Thus, [(16 + 30 + 27) / 9] * z = 365
Thus, 73 * z = 365 * 9
Thus, z = (365 * 9 / 73) = 45

Answer 16: 327.25 sq.m.
The figure may be complicated but the area of the turquoise region, essentially, = area of semicircle with radius 14m + area of semicircle with diameter 7m = (pi * 14 * 14 / 2) + (pi * 3.5 * 3.5 / 2) = 308 + 19.25 = 327.25

Answer 17: 1751
There are 17 non-collinear points and 6 collinear.
Triangles can be formed in the following ways:
1. Choosing 3 out of the 17 non-collinear points in 17C3 ways
2. Choosing 2 out of the 17 non-collinear and 1 out of the 6 collinear in 17C2 × 6 ways
3. Choosing 2 out of the 6 collinear and 1 out of the 17 non-collinear in 6C2 × 17 ways

Hence, the total number of triangles that can be formed = 17C3 + 17C2 × 6 + 6C2 × 17 = 1751 ways.

Answer 18: 8500
Quadrilaterals can be formed in the following ways.
1. Choosing 4 out of the 17 non-collinear points in 17C4 ways
2. Choosing 2 out of the 17 non-collinear points and 2 of the 6 collinear points in 17C2 × 6C2 ways
3. Choosing 3 out of the 17 non-collinear and 1 out of the 6 collinear points in 17C4 × 6 ways.
Hence, the total number of quadrilaterals that can be formed = 17C4 + 17C2 × 6C2 + 17C3 × 6 = 8500

Answer 19: 2032
The above expression translates to : (552/24)*8*(55/5)+(8*22)/(104-82) = 2032

Answer 20: 303
The above expression translates to : [(364+343)*21*(893-829)] / [(549-101)*7] = 303

Solutions of Online Quiz #47

Answer 1: Tackle
1-2-4-6 : care
5-2-3-4 : lack

Answer 2: Steadfast
1-4-5 : sad
6-7-8-9 : fast
6-3-4-2 : feat

Answer 3: Consumer
8-5-4-7 : ruse
1-2-6-6-2-3 : common

Answer 4: Sneering
Celestial
Apparition
Defenceless

Answer 5: The Man who stands with an open mouth must wait a long time for roast duck to drop in.

Answer 6: A bad penny always turns up

Answer 7: set
setpoint
setto
Settop

Answer 8: man
henchman
manhunt
manhole

Answer 9: 7 Wonders of the World
18 Holes on a Golf Course

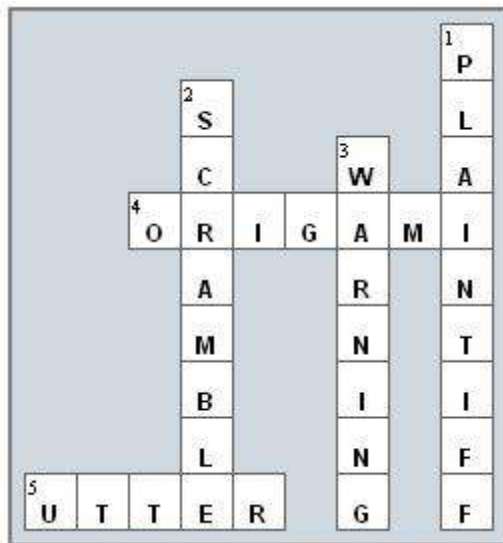**Answer 10:** 11 Players in a Cricket Team
5 Toes on a Foot

Answer 11: 8 Bits in a Byte
1 Cell in an Amoeba

Answer 12: None.
If he had at least one sibling, then his statement that he had ten or more siblings can also be true and vice versa. "I have less than ten siblings" can be true by itself if he and only if he had no sisters.

Answer13:

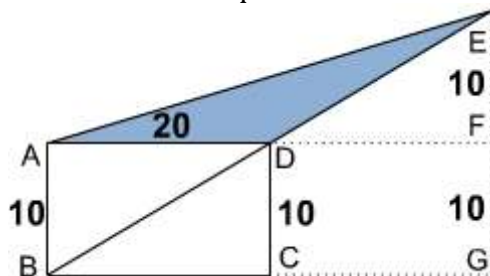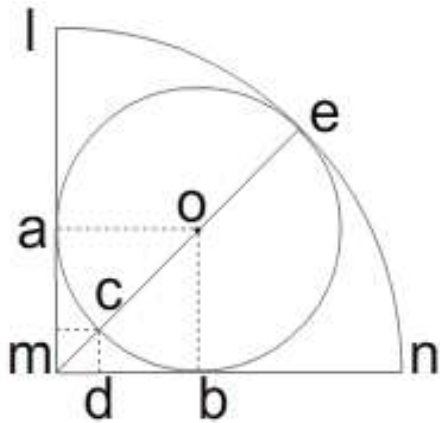**Answer 14:** Possible words are:
trainer
retrain
terrain

Answer 15: 100 sq.units

AD = BC = 200/10 = 20 sq. units
extend AD and BC as shown in the figure.
Triangle BCD and Triangle BEG are similar
BE = (1/2) * BE
Hence, GE = 2 * CD = 2 * 10 = 20 units
FG = 10 units
Hence, EF = 20 - 10 = 10 units
Hence, area of Triangle = (1/2) * AD * EF = (1/2) * 20 * 10
= 100 sq.units

Answer 16: 0.83 m.

In the figure, me = 2m
Let oe = r
cm = 2 - 2r
Also,
angle omb = 45 degrees.
hence, om = r * sqrt 2 = 1.414 r
cm = 1.414r - r = 0.414r
hence, 2 - 2r = 0.414r
2.414r = 2
r = 2/2.414 = 0.83m

Answer 17: 80 degrees
Angle prq = 180 - 80 = 100 degrees
angle sru = 360 - (angle srp + angle urq + angle prq)
= 360 - (90 + 90 + 100)
= 80 degrees.

Answer 18: 100
The expression translates to : 10-(44*48/(11*12)+4)-9*10 = -100

Answer 19: 100
The expression translates to : (22+9-8*8/7+1/7-2+30)*2 = 100

Answer 20: 12 m.
Consider the figure:
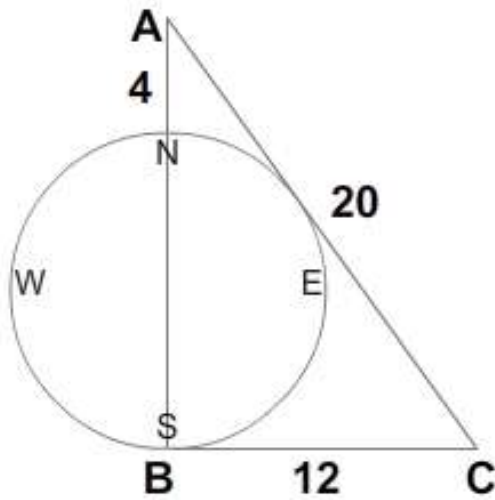
AN = 4, BC = 12, angle S = 90 degrees. I f we use Pythagorian triplets, we see the (12,16,20) triplet which is based on the basic (3,4,5) triplet.
Hence, AB = 16, BC = 12 and AC = 20.
Thus, NS = AB - AN = 16 - 4 = 12m

Solutions of Online Quiz #49

Answer 1: Dusseldorf
Free - 10 9 5 5
Freud - 10 9 5 2 7

Answer 2: Lancaster
CLAN - 4 1 5 3
ARC - 2 9 4

Answer 3: LUXEMBOURG
BELL - 6411

Answer 4:
Sweepstake
Seniority
Matriculate
Unlimited

Answer 5: Though no one can go back and make a brand new start, anyone can start from now and make a brand new ending.
A rich man's joke is always funny.

Answer 6: I'm not telling you it is going to be easy - I'm telling you it's going to be worth it.
Things turn out best for those who make the best of the way things turn out.

Answer 7: Super
Supermarket
Supernatural
Supercede

Answer 8: under
undertone
underdog
underdevelop

Answer 9: 9 lives of a Cat
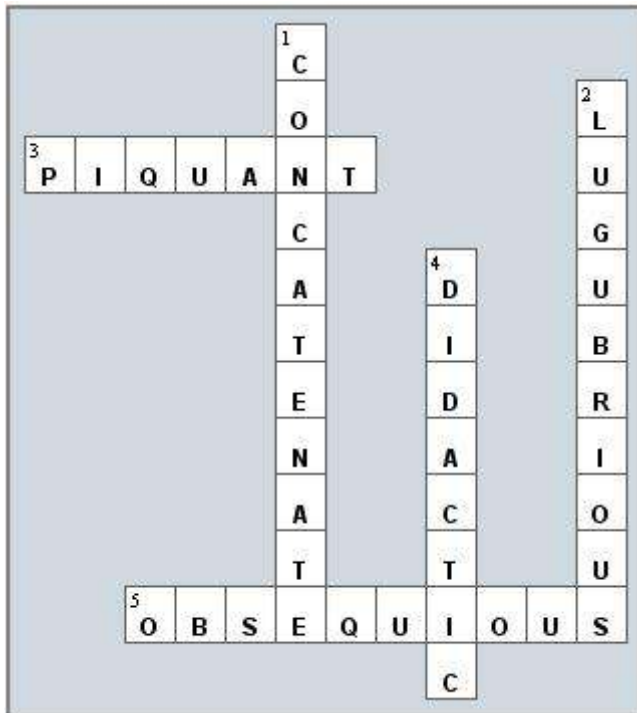50 years in a Golden Jubilee

Answer 10: 100 Cents in a Dollar
2 Wheels on a Bicycle

Answer 11: 2 Sides to Every Story
24 Spokes of the Ashoka Chakra

Answer 12: The bar was made of iron.

Answer13:

					1 C					
					O					2 L
3 P	I	Q	U	A	N	T				U
					C					G
					A		4 D			U
					T		I			B
					E		D			R
					N		A			I
					A		C			O
					T		T			U
	5 O	B	S	E	Q	U	I	O	U	S
							C			

Answer 14: Possible words are:
evident
vented
veined
evited
envied
endive
devein

Answer 15: 15.
Here, S = 180, a = -16, d = 4
S = [2a + (n-1)d]n/2
180 = [-32n + 4(n-1)n]/2
$4n^2 - 36n - 360 = 0$
$n^2 - 9n - 90 = 0$
(n-15)(n+6) = 0
n cannot be -6
Hence, n= 15

Answer 16: 45 kg.
The total weight of the 83 boys = 83 * 72 = 5976 kg.
The total weight of the first 69 boys = 69 * 69 = 4761 kg.
The total weight of the last 13 boys = 13 * 90 = 1170 kg.
The weight of the 70th boy = 5976 - (4761 + 1170) = 45 kg.

Answer 17: 615
The ratio of men to women = 5 : 4
The ratio of dogs to men = 3 : 4
On taking the L.C.M., we get
Dogs : Men : Women = 15 : 20 : 16
There are 656 women. Hence, the common ratio is (656/16 =) 41.
Hence, the number of dogs = 41 * 15 = 615.

Answer 18: 38.5 sq.cm
Area of the peach region = area of the trapezium - area of the quarter circle.
= (1/2)*(7+15)*7 - (1/4)*(22/7)*7*7
= 77 - 38.5
= 38.5 sq.cm.

Answer 19: -400
The expression translates to:
12/3-2*25-2+12-13*112/4 = -400

Answer 20: 100
The expression translates to:
13*12-2*4/2+32/4*1-45-15 = 100

Solutions of Online Quiz #51

Answer 1: Shanghai
Global Alliance for Improved Nutrition – 5784 - GAIN

Answer 2: Budapest
An ancient Roman trumpet-like instrument - 8214 -TUBA

Answer 3: Amsterdam
An alcoholic drink made by fermenting honey and water – 2587 - MEAD

Answer 4: P.

Answer 5: Between T & R.

Answer 6: U, Q, P, T, S, R.
Detailed explanation:
We know that S was on Friday. P was immediately before T. Hence, their order was PT. T wasn't on the last day. Q was immediately after U. Hence, their order was UQ. Q could not immediately precede S. So, U & Q were hosted on Monday & Tuesday. P & T on Wednesday and Thursday. Hence, R will be hald on Saturday. The order is shown in the folowing table:

Monday	U
Tuesday	Q
Wednesday	P
Thursday	T
Friday	S
Saturday	R

Answer 7:
Pretentious
Magniloquence
Rhetoric
Fustian

Answer 8: Money cannot bring you happiness, but at least you can be miserable in comfort.
When money talks, everyone else is silent.

Answer 9: It does not matter whether you are rich or poor, as long as you have got money.
If you want to make people laugh, your face must remain serious.

Answer 10: Bed
Bedrock
Bedspread
Featherbed

Answer 11: Clap
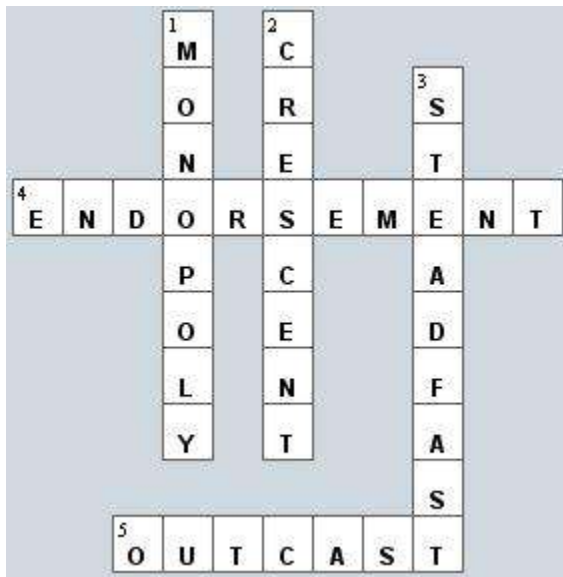Clapboard
Thunderclap
Claptrap

Answer 12: 1000 Words that a Picture is Worth

40 Days and Nights of the Great Flood

Answer 13: 78 Cards in a Tarot Deck
12 Inches on a ruler

Answer 14:

Answer 15: Possible words are:
tragedy
gyrated
gyrate
grayed
grated
yager
tread
trade
terga
teary
targe
tared
tardy
retag
ready
rayed
rated
raged
gyred
great
grate
grade
gayer
gated

deray
derat
deary
dater

Answer 16: 9 hours.
9 women and 9 hours implies 81 women-hours needed to sweep 9 rooms.
Hence, 9 women-hours are need to sweep one room.
Hence, 7 rooms require (7*9=) 63 women-hours.
Hence, 7 women will require 9 hours.

Answer 17: Rs. 108
Let the number of apples be x & the number of pears be y.
Hence, x + y = 21 ....(1)
8x + 4y = 144 ....(2)
Multiplying eqn. (1) by 4 and subtracting it from equation (2), we get
4x = 60
Hence, x = 15
Hence, y = 6
If the number of apples and pears was interchanged,
4x + 8y = 4*15 + 8*6 = 60 + 48 = 108

Answer 18: 531.23 sq.cm.
Since angle POQ = 60 degrees, the triangle is an equilateral triangle.
Area of the purple region = area of the circle - area of the triangle = (22/7)*14*14 - (sqrt 3)/4*14*14 = 616 - 84.77 = 531.23 sq.cm.

Answer 19: 51
The expression translates to:
19*10-4*22/2+49/7*1-85-17 = 51

Answer 20: 207
The expression translates to:
7*5/2*4/2-6/6*22-2*55+6*48+4*4 = 207

Solutions of Online Quiz #53

Answer 1: BARCELONA
7-3-4-2 – ORCA

Answer 2: Birmingham
10 9 5 4 – MAIM

Answer 3: Yorkshire
5475 - SKIS

Answer 4: 3375 1728 729 1331 343.

Answer 5: 1728 125 1000 27 512.

Answer 6: 40 55 88 30 96.
Detailed explanation:
Step 1: Square of the sum of the digits of Input
Step 2: Every element is subtracted from the element to its immediate right
Step 3: (Step 2 * 2) + 1
Step 4: Step 3 - 4
Step 5: Cube of the sum of the digits of Step 4

Answer 7:
Expedition
Investigation
Dimension
Liability

Answer 8:
Accessory
Solidarity
Fashionable
Installation

Answer 9:

Answer 10: Possible words are:
generic
cringe
cering
renig
reign
niece
nicer
green
genre
genie
genic

Answer 11: 88 piano keys
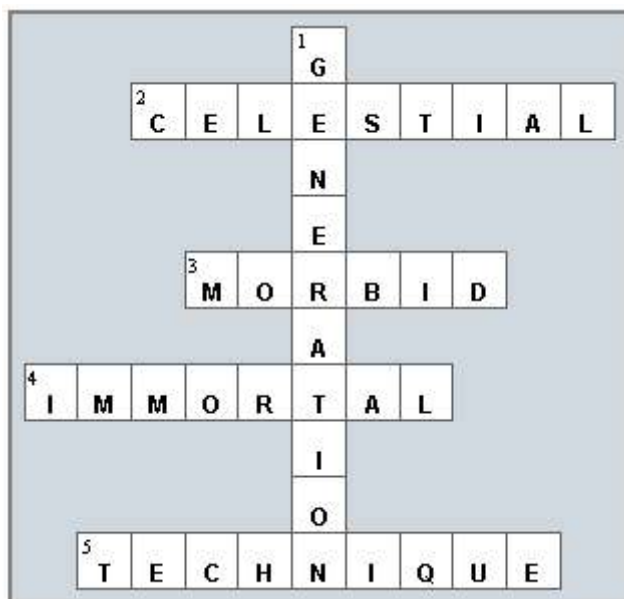4 quarts in a gallon or 4 quadrants in a graph

Answer 12: 7 colours in a rainbow
21 Points in Black Jack

Answer 13: 6 Pockets on a Pool Table
0 legs on a snake

Answer 14:

Answer 15: Possible words are: tenured, retuned, denture

Answer 16: (1/35).
Let x be 4a & y be 5a.
Replacing that in the expression, we get (36a - 35a)/(20a + 15a) = (a/35a) = (1/35).

Answer 17: Rs. 80
Let the price of the shirt be x & hence that of the pant is 1.15x.

Thus, x + 1.15x = 172
2.15x = 172
x = (172/2.15) = 80

Answer 18: 3%
Total cost price = 50 * 97 + 30 * 5 = 5000
Total seling price = 50 * 97 = 4850
Discount percentage = (5000 - 4850)/5000 * 100= 150/5000 * 100 = 3%

Answer 19: 7
25200 = 2*2*2*2*3*3*5*5*7
The only unpaired factor is 7. If we multiply seven, we will have a perfect square.

Answer 20: -50
The expression can be expressed as (1, 2, 3.... upto 25 terms) - (3, 4, 5.. upto 25 terms)
In the first AP, a = 1, d = 1, n = 25
Hence, s = (25/2)*(2 + 24) = 325
In the second AP, a = 3, d = 1, n = 25
Hence, s = (25/2)*(6 + 24) = 375
Hence, the value of the expression is : 325 - 375 = -50

Solutions of Online Quiz #55

Answer 1: Ahmedabad
A small circular or globular body - 7465 - BEAD

Answer 2: GREENWICH
A shout of encouragement – 89342 - CHEER
A small energetic songbird – 6235 - WREN

Answer 3: YUGOSLAVIA
A small glass container – 8 9 10 6 - VIAL
To kill by violence – 5 6 7 1 - SLAY

Answer 4: 26 22 14 24 30.

Answer 5: 81 49 25 36 49.

Answer 6: 11 17 19 18 15.
Step I: The first element = Input * 2 - 8, the second element = Input * 2 - 7 and so on
Step II: The first element = Step I + 2, the second element = Step I + 3 and so on
Step III: Step II * 2
Step IV: Step III - Input
Step V: Square of sum of digits

Answer 7:
Gratitude
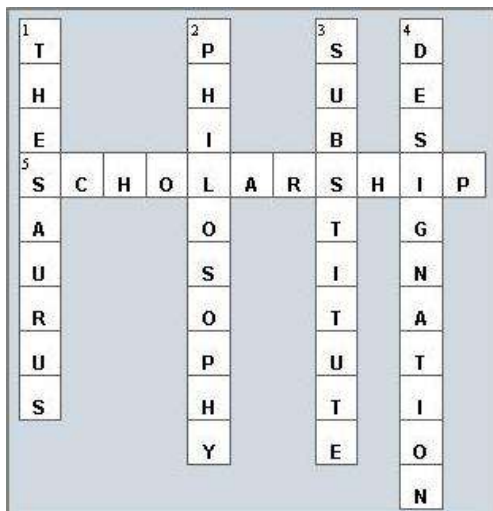Definition
Customer
Intrigue

Answer 8:
Product
Generation
Parliament
Scientific

Answer9:

 Answer 10: Possible words are:
repaint
pertain
painter

Answer 11: 746 Watts is 1 Horsepower
8 pints in a gallon

Answer 12: 23 pairs of chromosomes in the Human Body
9 innings in a base ball game

Answer 13: 6 sides on a dice
21 is the sum of numbers on a dice

Answer 14: Possible words are:
flitted
titled
tilted
lifted
flited
fitted

Answer 15: Rs. 71,74,453.
This is a G.P. with a = 1 and r = 3.
Sum of the first 15 elements in the GP = a(r^n - 1)/(r - 1) = 1(3^15 - 2)/(3-1) = 71,74,453.

Answer 16: The Eldest received Rs. 6800, The Middle child received 10,200 and the youngest received Rs. 20,400.
Let the Eldest Brother's share be x, the Second brother's be y and the youngest's be z.
x + y + z = 37,400
Also,
(1/2) * x = (1/3) * y = (1/6) * z
Thus,
y = (1/2) * z
x = (1/3) * z
Thus,
(1/2) * z + (1/3) * z + z = 37400
3z + 2z + 6z = 37400 * 6
z = 37400 * 6 / 11 = 20,400
y = (1/2) * z = 10,200
x = (1/3) * z = 6,800

Answer 17: 126 sq.cm.
Volume of cube = side ^ 3
Hence, side = cuberoot 27 = 3
Length of the new figure = 3 + 3 + 3 = 9 cm
Breadth and Height of the new figure = 3 cm
Hence,
surface area = 2(lb * bh * lh) = 2(9*3 + 3*3 + 9*3) = 2*63 = 126

Answer 18: 24 cm.
length of one side of the triangle = 16(root 3)
Height of an equilateral triangle = (root 3)/2 * side

= 16*3/2 = 24.

Answer 19: A lie travels round the world while truth is putting her boots on.
A new broom sweeps clean, but the old brush knows all the corners.

Answer 20: A prudent man does not make the goat his gardener.
Do not blame God for having created the tiger, but thank him for not having given it wings.

Solutions of Online Quiz #57

Answer 1: GUATEMALA
Iron, silver, gold, copper - 6 5 4 7 8 – M E T A L

Answer 2: SINGAPORE
Organism belonging to Phyllum Porifera – 167349 - SPONGE

Answer 3: VENEZUELA
Calf meat – 1298 - VEAL

Answer 4: 169 196 144 49 121.

Answer 5: 16 64 144 169 25.

Answer 6: 12 33 26 19 37.

Detailed explanation:
Step 1 : Input * 2 + 1
Step 2 : 1st element= Step 1 + 6, 2nd element = Step 1 + 7 and so on
Step 3 : Digits of Step 2 are reversed
Step 4 : Step 3 + Input
Step 5 : Square of the sum of the digits
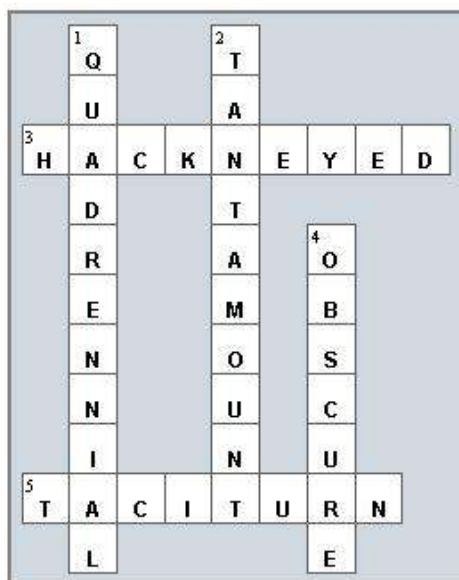
Answer 7: serious
gelding
recover

Answer 8: faceoff
tesseract
window

Answer 9:

Answer 10: Possible words are:
farther
trefah
rather
rafter
hafter
frater
father

Answer 11:
Equivalent
Habitual
Significant
Chromosome

Answer 12:
Strategy
Stimulate
Internet
Dictionary

Answer 13: Possible words are:
breathe
reheat
rebate
hereat
heater
breath
bertha
berate
beater
bather
aether

Answer 14: 5/12
The prime numbers less than 12 are 2,3,5,7,11
The 36 possible combinations possible on rolling 2 fair dice are:
(1,1), (1,2), (1,3), (1,4), (1,5), (1,6),
(2,1), (2,2), (2,3), (2,4), (2,5), (2,6),
(3,1), (3,2), (3,3), (3,4), (3,5), (3,6),
(4,1), (4,2), (4,3), (4,4), (4,5), (4,6),
(5,1), (5,2), (5,3), (5,4), (5,5), (5,6),
(6,1), (6,2), (6,3), (6,4), (6,5), (6,6)

Of these, the following 15 combinations result in prime numbers:
(1,1), (1,2), (1,4), (1,6),
(2,1), (2,3), (2,5),
(3,2), (3,4)
(4,1), (4,3)
(5,2), (5,6)
(6,1), (6,5)
Hence, the probability of getting a prime number is: 15/36 = 5/12

Answer 15: 1/6
A number that is divisible by 2 & 3 is divisible by 6.
The 36 possible combinations possible on rolling 2 fair dice are:
(1,1), (1,2), (1,3), (1,4), (1,5), (1,6),
(2,1), (2,2), (2,3), (2,4), (2,5), (2,6),
(3,1), (3,2), (3,3), (3,4), (3,5), (3,6),
(4,1), (4,2), (4,3), (4,4), (4,5), (4,6),
(5,1), (5,2), (5,3), (5,4), (5,5), (5,6),
(6,1), (6,2), (6,3), (6,4), (6,5), (6,6)

Of these, the following 6 combinations are divisible by 6:
(1,5), (2,4), (3,3), (4,2), (5,1), (6,6)

Hence, the probability of getting a number divisible by 2 & 3 is: 6/36 = 1/6

Answer 16: 2/3
Numbers divisible by 2 or 3 will include numbers divisible by 2 only, numbers divisible by 3 only and numbers divisible by both, 2 & 3.

The 36 possible combinations possible on rolling 2 fair dice are:
(1,1), (1,2), (1,3), (1,4), (1,5), (1,6),
(2,1), (2,2), (2,3), (2,4), (2,5), (2,6),
(3,1), (3,2), (3,3), (3,4), (3,5), (3,6),
(4,1), (4,2), (4,3), (4,4), (4,5), (4,6),
(5,1), (5,2), (5,3), (5,4), (5,5), (5,6)
(6,1), (6,2), (6,3), (6,4), (6,5), (6,6)

Of these, the following 24 combinations are divisible by 2 or 3 or both, 2 & 3:
(1,1), (1,2), (2,1), (1,3), (2,2),
(3,1), (1,5), (2,4), (3,3), (4,2),
(5,1), (2,6), (3,5), (4,4), (5,3),
(6,2), (3,6), (4,5), (5,4), (6,3),
(4,6), (5,5), (6,4), (6,6)

Hence, the probability of getting a number divisible by 2 or 3 is: 24/36 = 2/3

Answer 17: A dog is the only thing on earth that loves you more than you love yourself.
Life is what happens to you while you're busy making other plans.

Answer 18: The man who smiles when things go wrong has thought of someone to blame it on.
You can be young without money but you can't be old without it.

Answer 19: PEGHDD and DQZRUZM.

Answer 20: KCQVCT and QNYXC

Explanation: The letters in odd positions are represented by letters that immediately succeed them in the English language while the letters in even positions are represented by letters that immediately precede them.

Solutions of Online Quiz #59

Answer 1: INFLUENZA
A small, mischievous entity considered to have magical powers - 6 4 3 – ELF

Answer 2: CHICKENPOX
To repeat or imitate – 6429 - ECHO

Answer 3: ARTHRITIS
A sleeved garment – 94657 - SHIRT

Answer 4: 65 98 159 147 197.

Answer 5: 34 48 104 123 189.

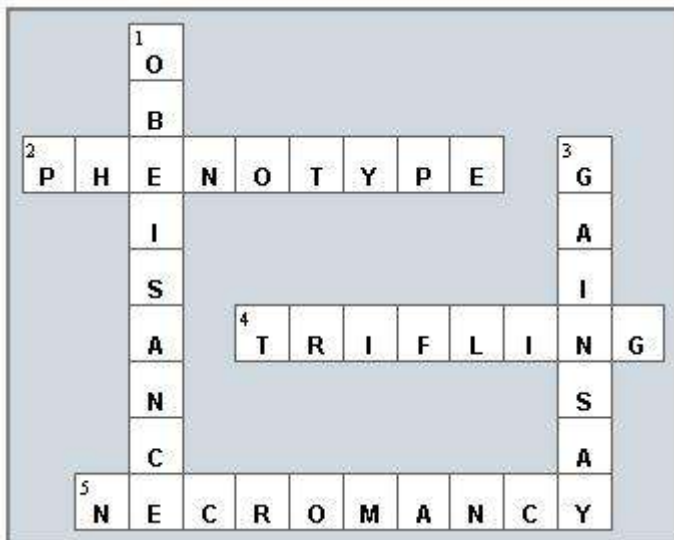**Answer 6:** 22 13 34 21 17.

Answer 7: Air.
airship
airbrush
airfield

Answer 8: Book.
bookmobile
matchbook
yearbook

Answer9:

Answer 10: The two most common elements in the world are hydrogen and stupidity.
Only your real friends tell you when your face is dirty.

Answer 11: If you spend your whole life waiting for the storm, you will never enjoy the sunshine.
The only time you run out of chances is when you stop taking them.

Answer 12: Never wrestle with a pig-you both get dirty but the pig likes it.
The walls we build around us to keep out the sadness also keep out the joy.

Answer 13: CWVMSKZA and TVUESMLZ.

Answer 14: KNOWLEDGE and AWARENESS.
Explanation: The first letter is substituted by the letter immediately succeeding it. The second letter is substituted by the letter succeeding it after 2 positions and so on.

Answer 15: Rs. 14,000.
Let the cost price be Rs. x
Then, the selling price = 1.3x
Thus,
1.3x = 18200
x = 14000

Answer 16: 144 m.
Let the common ratio be x.
Then,
12x * 8x * 7x = 1161216
Hence, x^3 = 1161216/672
x = 12
Hence, the length is 12*12 = 144 m.

Answer 17: 73.18 (approx.)
The total score of 45 students was 45 * 75 = 3375
The total score of the 12 chosen students was 12 * 80 = 960
The score of the remaining 33 = (3375 - 960)/33 = 73.18

Answer 18: Mayonnaise.
Through thick and thin.

Answer 19: Head in the clouds.
Put on weight.

Answer 20: Space Invaders.
One thing after another.

Solutions of Online Quiz #61

Answer 1: PENTAGRAM
a portion or division of a whole – 1 5 7 4 – PART

Answer 2: TRAPEZOID
To reverse the course of events – Turn the 1895 - TIDE

Answer 3: DODECAGON
The head of a faculty, or administrative division in a university – 1469 - DEAN

Answer 4: 89 145 157 160 131.

Answer 5: 107 130 161 153 166.

Answer 6: 19 18 29 14 8.
Detailed explanation:
STEP 1 : All elements are sequentially shifted left by one position
STEP 2 : The order of elements is reversed
STEP 3 : Step 2 * 2 + 1
STEP 4 : Step 3 is arranged in ascending order
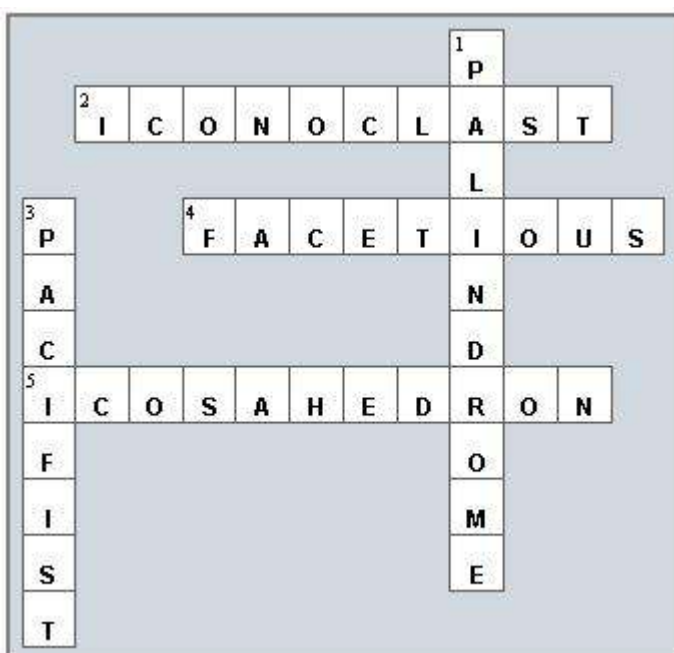STEP 5 : Input + Step 1 + Step 2 + Step 3 + Step 4

Answer 7: exile
tuft
talent

Answer 8: blurb
emerge
remember

Answer9:

 Answer 10: One can never consent to creep when one feels an impulse to soar.
Laughter is the shock absorber that eases the blows of life.

 Answer 11: When everything's coming your way, you are in the wrong lane.
Nothing can confound a wise man more than laughter from a dunce.

Answer 12: If you can't see the bright side of life, polish the dull side.
You only live once, but if you work it right, once is enough.

Answer 13:
a. tranquility
b. benevolence

Answer 14:
a. analogous
b. austere

Answer 15: 56 litres.
Out of the 40 litres, 24 litres are milk and 16 litres are chocolate syrup.
In the new ratio, the 16 litres correspond to 1.
Hence, 80 litres of milk makes the ratio 5:1.
Hence, 80 - 24 = 56 litres of milk need to be added.

Answer 16: 14/33.
The probability that both the marbles are black = 8/12 * 7/11 = 14/33

Answer 17: 71.54%
Weighted average = (200*0.6 + 300*0.8 + 150*0.7)/(200+300+150) = 71.54%

Answer 18: Summit.
Looking back over time.

Answer 19: Thickening plot.
Sweet sixteen.

Answer 20: Exterminate.
Tribal Chief.