IBA Undergraduate Sample Admission Test 01

Part I English

Passage 01

A frothy stock market is no justification for complacence of the economy. Growth (1)-------- back to 5.7% in the June quarter, the fastest expansion in nearly two years, but the (2)-------growth, especially in manufacturing, was largely due to the base effect. Its sustainability cannot be (3)--------- in the absence of structural reforms. Data on economic d by other agencies, also (4)-------that it would be (5)-------to see the first-quarter numbers as showing sustained recovery. Growth in services, that (6)--------- to over 55% of the GDP, has slowed down. The seasonally-adjusted HSBC India Services Business Activity Index (7)------- a reading of 55.6 in August, down from 52.2 in July. A reading of 50 separates growth from contraction. Bank credit growth is at a four-and-a-half-year low. The RBI data shows that bank credit grew by 10.9% on a year-on-year (8) ---------for the fortnight ended August 22, while deposits grew 13.6% year-on-year for the same period. Bad loans could (9) --------if banks are forced to lend. Investment (10)------- is what is needed to push up lending.

Direction:

Directions (1-10): In the following passage, some of the words have been left out, each of which is indicated by a number. Find the suitable word from the options and fill up the blanks with to make the paragraph meaningful.

1. a) bumped

   b) bounced

   c) jumped

   d) rebound

   e) recoiled

2. a) potent

   b) small

   c) fragile

   d) robust

   e) vigorous

3. a) guaranteed

   b) endorsed

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c) pledged

d) attested

e) warranted

4. a) tout

b) conceal

c) suggest

d) advocate

e) plug

5. a) immature

b) incomplete

c) overdue

d) abortive

e) premature

6. a) commit

b) contribute

c) supply

d) afford

e) furnish

7. a) assigned

b) set

c) established

d) posted

e) placed

8. a) form

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b) based

c) system

d) way

e) basi

9. a) surge

b) flow

c) swell

d) decline

e) flood

10. a) restoration

b) recovery

c) revival

d) resurrection

e) suppression

Reading Comprehension

Passage 01

Until recently astronomers have been puzzled by the fate of red giant and super giant stars. When the core of a giant star whose mass surpasses 1.4 times the present mass of our Sun($M_\Diamond$) exhausts its nuclear fuel , it is unable to support its own weight and collapses into a tiny neutron star. The gravitational energy released during this implosion of the core blows off the remainder of the star in a gigantic explosion, or a supernova.

Since around 50 percent of all stars are believed to begin their lives with masses greater than 1.4 $M_\Diamond$, we might except that one out of every two stars would die as a supernova. But in fact, only one star in thirty dies such a violent death. The rest expire much more peacefully as planetary nebulas. Apparently most massive stars manage to lose sufficient material that their masses drop below the critical value of 1.4 $M_\Diamond$ before they exhaust their nuclear fuel.

Evidence supporting this view comes from observation of IRC +10216. A pulsating giant star located 700 light-years away from Earth. A huge rate of mass loss (1 $M_\Diamond$ every 10000 years) has been deduced from infrared observations of ammonia (NH_3) molecules located in the circumstellar cloud around IRC +10216. Recent microwave observations of carbon monoxide (CO) molecule indicate the rate of mass lose and demonstrate that the escaping material extends outward from the star for a distance of at least one light year. Because we know the size of the cloud around IRC + 10216 and can use our observation of either NH_3 or CO to measure

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the outflow velocity, we can calculate an age for the circumstellar cloud. IRC +10216 has apparently expelled, in the form of molecules ad dust grains, a mass equal to that of our entire Sun within the past ten thousand years. This implies that some stars can shed huge amounts of matter very quickly and thus may never expire as supernovas. Theoretical models as well as statistics on supernovas and planetary nebulas suggest that begin their lives with masses around $6M_\diamond$ IRC + 10216, for example should do this in a mere 50,000 years from its birth, only an instant in the life of a star.

But what place do IRC+0216 have in stellar evolution? Astronomers suggest that stars like IRC +10216 actually " proto-planetary nebulas "- old giant stars whose dense cores have almost but not quite rid them selves of the fluffy envelopes of gas around them. Once the star has lost the entire envelopes, its exposed core becomes the central star of the planetary nebula and heats and ionizes the last vestiges of the envelope as it flows away into space. This configuration is a full - fledged planetary nebula, long familiar to optical astronomers.

11. The primary purpose of the passage is to

    A. Offer a method of calculating the age of circum stellar clouds

    B. Describe the conditions that result in author's expiring as a supernova

    C. Discuss new evidence concerning the composition of planetary nebulas

    D. Explain why fewer stars than predicted expire as supernovas

    E. Survey conflicting theories concerning the composition of circumstellar clouds

12. The passage implies that at the beginning of the life of IRC+10216, its mass was approximately

    A. $7.0M_\diamond$ B. $6.0M_\diamond$

    C. $5.0M_\diamond$ D. $1.4M_\diamond$

    E. $1.0M_\diamond$

13. The view to which line 18 refers serves to

    A. Reconcile seemingly contradictory facts

    B. Undermine a previously held theory

    C. Take into account data previously held to be insignificant

    D. Resolve a controversy

    E. Question new methods of gathering data

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14. It can be inferred from the passage that the author assumes which of the following in the discussion of the rate at which IRC+10216 lose mass?

A. The circum stellar cloud surrounding IRC+10216 consists only of CO and NH_3 molecules.

B. The circumstellar cloud surrounding IRC+10216 consists of material expelled from the star.

C. The age of a star is equal to that of its circumstellar cloud.

D. The rate at which IRC +10216 loses mass varies significantly from year to year.

E. Stars with a mass greater than 6 $M_\Diamond$ lose mass at a rate faster than stars with a mass less than 6$M_\Diamond$ do.

15. According to information provided by the passage which of the following stars would astronomers most likely describe as a planetary nebula?

A. A star that began its life with a mass of 5.5$M_\Diamond$, has exhausted its nuclear fuel, and has a core that is visible to astronomers

B. A star that began its life with a mass of 6$M_\Diamond$, lost mass at a rate of 1 $M_\Diamond$ per 10,000 years, and exhausted its nuclear fuel in 40,000 years

C. A star that has exhausted its nuclear fuel, has a mass of 1.2 $M_\Diamond$, and is surrounded by a circumstellar cloud that obscures its core from view

D. A star that began its life with a mass greater than 6$M_\Diamond$, has just recently exhausted its nuclear fuel, and is in the process of releasing massive amount of gravitational energy

E. A star that began its life with mass of 5.5$M_\Diamond$, has yet to exhaust its nuclear fuel, and exhibits a rate of mass loss similar to that of IRC +10216

16. Which of the following statements would be most likely to follow the last sentence of the passage?

A. Supernovas are not necessarily the most spectacular events that astronomers have occasion to observe.

B. Apparently, stars that have a mass of greater than 6$M_\Diamond$ are somewhat rare.

C. Recent studies of CO and NH_3 in the circumstellar clouds of stars similar to IRC+10216 have led astronomers

D. It appears, then, that IRC +10216 actually represents an intermediate step in the

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to believe that the formation of planetary nebulas precedes the development of supernovas.

E. Astronomers have yet to develop a consistently accurate method for measuring the rate at which a star exhausts its nuclear fuel.

evolution of a giant star into a planetary nebula.

17. Which of the following titles best summarizes the content of the passage?

A. New Methods of Calculating the age of Circumstellar Clouds

B. New Evidence Concerning the Composition of planetary Nebulas

C. Protoplanetary Nebula: A Rarely Observed Phenomenon

D. Planetary Nebulas: An Enigma to Astronomers

E. The Diminution of a Star's Mass: A Crucial Factor in Stellar Evolution

Passage

All the members of the Student Rights Coalition signed the petition calling for a meeting with the university trustees. Pervaiz must be a member of the Student Rights Coalition, since his signature appears on the petition.

Question:

18. Which of the following best states the central flaw in the reasoning above?

A. Some members of the Student Rights Coalition may not support all of the organization's positions.

B. It is possible that Pervaiz' signature on the petition was forged by a member of the Student Rights Coalition.

C. Any member of the student body is eligible to sing a petition dealing with university affairs.

D. Pervaiz may have resigned from the Student Rights Coalition after signing the petition.

E. Some of those who signed the petition may not be members of the Student Rights Coalition.

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CAT

Passage

Pollution control can no longer be viewed as a national problem to be addressed by individual countries on the basis of national sovereignty. As the international effects of the Chernobyl nuclear accident made clear, pollutants do not respect political boundaries; thus every nation has a legitimate stake in the environmental practices and policies of its neighbors.

Question:

19. Which of the following would be the most logical continuation of the argument above?

A. So, growth of the nuclear power industry should be halted until more rigorous safety procedures have been developed.

B. Hence, attempts made by one nation to impose its environmental policies on another should be resisted–if necessary, by force.

C. Consequently, issues of pollution should be handled by an international commission with the authority to set policies for all nations.

D. Thus, every nation should pledge itself to environmental policies that will minimize the danger to its neighbors.

E. As a result, only the ultimate emergence of a sovereign world government will resolve today's most pressing environmental dilemmas.

Passage

The percentage of family income spent on entertainment has remained almost the same over the past twenty years – about twelve percent. When new forms of entertainment become popular, they do not expand this percentage; instead, they take consumer spending away from other forms of entertainment. Therefore, film producers have observed the video boom with concern, knowing that every dollar spent on rental of videos means a dollar less spent on movie theater admission.

QUESTION:

20. Which of the following, if true, most forcefully undermines the argument of the passage above?

A. The cost of renting a video is generally substantially less than the price of a movie theater admission.

B. Most film producers receive a potion of the income from the sale of video rights to their movies.

C. Fears of some film producers that videos would completely supersede movies have not come to pass.

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D.   Since the start of the video boom, money spent on forms of entertainment other than videos and movies has dropped.

E.   Some movies that were unprofitable when shown in theaters have become successful when released in video form.

PASSAGE

For the purpose of this study, ten qualities of a livable city were chosen, including a low crime rate, cleanliness, cultural attractions, and other amenities. For each city in the study, scores from 1 (lowest) to 10 (highest) were assigned for each of the ten qualities. The ten scores for each city were then summed, yielding a total livability sore for each city. We hope the resulting ratings will help you in choosing your next place of residence.

QUESTION:

21.   The passage above makes which of the following assumptions?

A.   Some of the ten qualities of a livable city are more important than other qualities.

B.   Most people enjoy some degree of personal choice in where they reside.

C.   Most people who use the survey will reinterpret the statistic in light of their own needs.

D.   It is possible to assign an accurate numerical score to each of a city's amenities.

E.   Most people would prefer to live in one of the cities designated as "most livable" by the survey.

PASSAGE

Foreign made electronics products gained popularity in the United States during the 1970s primarily because of their low cost. In recent years, changes in the exchange rates of currencies have increased the prices of imported electronic products relative to those produced in the United States. However, sales of imported electronics products have no declined in recent years.

QUESTION:

22.   Which of the following, if true, would best explain why sales of imported electronics products remain high?

A.   Trade ministries in foreign nations have pursued policies that prevented prices of electronics products from rising even faster.

B.   The cost of manufacturing electronics products abroad is still lower than it is in the United States.

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C.   A coming shortage in consumer credit in the United States is expected to depress sales of imported products during the next two years.

D.   American consumers now perceive the quality of imports as being high enough to justify the increased prices.

E.   United States manufacturers have tried to convince Americans to buy United States-made products for patriotic reasons.

PASSAGE

Young people who imagine that the life of the writer is one of glamour, riches, or fame soon discover not only the difficulties of the craft but the long odds against achieving any measure of recognition or financial security. Upon being asked, "Aren't most editors failed writers?" T.S. Eliot is said to have remarked, "Yes, but so are most writers,"

QUESTION:

23.   The statement by T.S. Eliot conveys which of the following ideas?

A.   The profession of editing can be just as creative and challenging a writing.

B.   Few writers are fortunate enough to attain real success in their profession.

C.   For a writer, success is measure more by influence exerted than by material gain achieved.

D.   Many writers find that a stint at editorial work is a beneficial apprenticeship in their craft.

E.   There are no clear-cut standard of success and failure for writers, but there are such standards for editors.

PASSAGE

Superficially, today's problems with the abuse of illegal drugs such as heroin and cocaine resemble the abuse of alcohol during the 1920s, when many people kept drinking in spire of Prohibition. There is, however, a significant difference. The use of drugs such as heroin and cocaine has never been a widespread, socially accepted practice among most middle-class, otherwise law-abiding Americans.

QUESTION:

24.   An underlying assumption of the passage is that

A.   During Prohibition, drinking of alcohol was commonly accepted among most Americans

B.   As long as drugs are available, they will be used despite laws to the contrary

C.   Most Americans consider heroin and cocaine to be in the same category as alcohol

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D.   In a democracy, laws must be based on the fundamental beliefs and values of the majority of citizens.

E.   American popular opinion has always been molded primarily by the values of the middle class.

PASSAGE FOR 25 - 26

Recent studies indicate that more violent crimes are committed during hot weather than during cold weather. Thus, if we could control the weather, the violent crime rate would drop.

QUESTIONS:

25.   The preceding argument makes which of the following assumption?
I.   the relationship between weather conditions and crime rate is merely coincidental.
II.   The relationship between weather conditions and crime rate is causal.
III.   The relationship between weather conditions and crime rate is controllable.

A.   I only

B.   I and II only

C.   I,II, and III

D.   II only

E.   II and III only

26.   The argument would be strengthened if it pointed out that

A.   The annual crime statistics for New York are higher than those for Los Angeles.

B.   Poor socioeconomic conditions, more uncomfortable in hot weather than in cold, are the direct causes of increased crime.

C.   In laboratory tests, increased heat alone accounted for increased aggressive behavior between members of the test group.

D.   Weather control will be possible in the near future.

E.   More people leave their doors and windows open during hot weather.

PASSAGE

By appropriating bailout money for the depressed housing industry, Congress is opening the door to a flood of special relief programs for other recession-affected businesses.

QUESTION:

27.   The author's attitude toward Congress's action is probably

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A.   Neutral

B.   Confused

C.   Irate

D.   Disapproving

E.   Supportive

PASSAGE

The value of a close examination of the circumstances of an aircraft accident lies not only in fixing blame but in learning lessons.

QUESTION:

28.   The preceding statement fits most logically into which of the following types of passages?

A.   A survey of the "scapegoat phenomenon" in modern society

B.   An argument against the usefulness of the National Transportation Safety Board

C.   An argument in favor of including specific details in any academic essay

D.   A brief history of aeronautics

E.   A description of the causes of a particular aircraft accident

PASSAGE

The department store owned by my competitor sells green necklaces that glow in the dark. Only those customers of mine wearing those necklaces must be giving business to the competition.

QUESTION:

29.   The author foolishly assumes that

A.   The customers might find the necklaces attractive.

B.   Customers will wear the necklaces in daylight.

C.   The competition is outselling the author.

D.   Customers are not buying other products from the competition.

E.   A department store should not sell necklaces.

PASSAGE

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Marketing literature for a computer program called "LingoLango" cites a study in which students who used Lingolango software scored 15% higher in school than students who didn't use its software. Therefore, the software company asserts that using

"LingoLango" will increase a student's school grades by 15%.

QUESTION:

30.   Which of the following statements, if true, would most seriously weaken the company's claim?

A.   "LingoLango" teaches students skills that may also help them perform better on standardized tests.

B.   Students who used "LingoLango" and then did poorly in school were more likely to report their school grades inaccurately.

C.   Students who didn't use "LingoLango" benefited from private tutoring.

D.   "LingoLango" was listed as the "Cadillac of academic preparation software" by an independent testing consultant.

E.   An equal number of male and female students used the software.

Part 2 Math

31 What is the Next number in the geometric progression 4, 12, 36?
  A) 108   B) 72   C) 18   D) 48

32 An angle of x degrees has property that its complement is equal to $\frac{1}{6}$ of its supplement where x is
  A) 30   B) 45   C) 72   D) 63

33 If   y = $\frac{3}{x^2}$ + x and x = 3, then y is
  A) 11/9   B) 3/5   C) 10/3   D) None

34 Which of the following numbers is the least common multiple of the numbers 2 , 3 , 4 , and 5?
  A) 12   B) 60   C) 30   D) 40

35 In a certain town 40% of the people have brown hair, 25% have brown eyes, and 10% have both brown hair and brown eyes. What percentage of the people in the town has neither brown hair nor brown eyes?
  A) 45%   B) 25%   C) 90%   D) 20%

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36 If the altitude of triangle increases by 5% and the base of the triangle increases by 7%, by what will the area of the triangle increase?

A)   12.35%   B)   35%   C)   3.5%   D)   24.5%

37 A shipping firm charge 2 cents a pound for the first 20 pounds of package weight and 1.5 cents for each pound or fraction of a pound over 20 pound of package weight. How much will it charge to ship a package which weighs $23\frac{1}{2}$ pounds?

A)   40¢   B)   35.25¢   C)   44.5¢   D)   46¢

38 If papers cost 1 cent a sheet and a buyer gets a 2% discount on all the papers he buys after the first 1,000 sheets, how much will it cost to buy 5,000 sheets of paper?

A) $49.2   B) $40   C) $50   D)   None

39 Tom's salary is 150% of John's salary is 80% of Steve's salary. What is the ratio of Steve's salary to Tom's salary?

A)   90%   B)   120%   C)   60%   D)   100%

40 During a half- price sale, Mr. Kamaron bought a toothbrush for the usual price and a second toothbrush for one-half the usual price. If he paid 1.80 for the 2 toothbrushes, what was the usual price of a toothbrush?

A)   1.2   B)   0.6   C)   1.8   D)   0.3

41 If it takes 50 workers 3 hours to dig sewer, how long should it take 30 workers to dig the same sewer?

A)   8   B)   6   C)   5   D)   2

42 If each photocopy of a manuscript costs 4 cents per page, what is the cost, in cents, to reproduce x copies of an x-page manuscript?

A) $4X^2$ B)   4x   C) X^2 D)   16x

43 A car is traveling on a straight highway. At 10 PM, it passes a truck traveling in the same direction. The truck continues on the highway traveling at 50 mph while the car travels at 65 mph. How far apart are the car and the truck at 2 AM? (in miles)

A)   30   B)   50   C)   60   D)   20

44 If the length of a rectangle is increased by 11% and the width remains the same, then the area of the rectangle is increased by

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A)   11%   B)   100%   C)   50   D)   32%

45   Wheat costs $2.00 a bushel and corn costs $2.62 a bushel. If the price of wheat rises 10% a month and the price of corn is unchanged, how many moths will take before a bushel of corn costs less than a bushel of wheat?

A)   6   B)   3   C)   5   D)   7

46   If   k(X + Y + Z + W) = 15, X, Y, Z, W and K are integers greater than 0, where K may be = ?

A)   1   B)   8   C)   7   D)   9

47   If x − 2 is less than y then

A)   x and y are positive   B)   y is less than x +2   C)   y is greater than x   D)   y + 2 is greater than x

48   If $\frac{1}{2} + \frac{1}{4} = \frac{x}{15}$, then x is

A)   11.25   B)   15.5   C)   45   D)   8

49   Which of the following figures has the largest area?

I . A circle of radius √2

II. An equilateral triangle whose sides each have length 4.

III. A triangle whose sides have lengths 3 , 4 , and 5.

A)   I   B)   II   C)   III   D)   None

50. 0.2 × 0.02 × 0.0021 =

A)   0 .08   B)   0.008   C)   0.00008   D)   0.000008

51. If it costs $1.30 a square foot to lay linoleum, what will be the cost of laying 20 square yards of linoleum? (3ft. = 1 yd.)

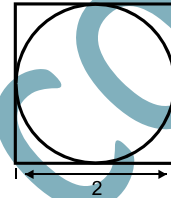A) $4680   B) $4980   C) $5095   D)   None

52. In a family of five, the heights of the members are 5 feet 1 inch, 5 feet 7 inches, 5 feet 2 inches, 5 feet, and 4 feet 7 inches. The average height is

A)   4 feet $4\frac{1}{5}$ inches   B)   5 feet   C)   5 feet 1 inch   D)   5 feet 2 inches

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53. Three times the first of three consecutive odd integers is 3 more than twice the third. Find the third integer.
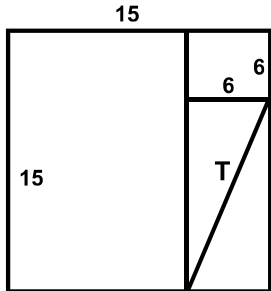   A) 7   B) 11   C) 13   D) 15

54. In the figure below, the largest possible circle is cut out of a square piece of tin. The area, in square inches, of the remaining piece of tin is approximately

    A) 0.14   B) 0.75   C) 0.86   D) 1.0

55.

    The figure shows one square inside another and a rectangle of diagonal T. The best approximation to the value of T. in inches, is given by which of the following inequalities?

    A) $8 < T < 9$ B) $9 < T < 10$ C) $10 < T < 11$ D) $11 < T < 12$

56. If nails are bought at 35 cents per dozen and sold at 3 for 10 cents, the total profits on 5½ dozen is
    A) 25 cents   B) 27½ cents   C) 31½ cents   D) 35 cents

57. The total number of eighths in 2¾ is
    A) 11   B) 14   C) 19   D) 22

58. What is the difference when $-x-y$ is subtracted from $-x^2 + 2y$?
    A) $x^2 - x - 3y$ B) $-3x + 3y$ C) $x^2 + 3y$ D) $-x^2 + x + 3y$

59. If $2^m = 4x$ and $2^w = 8x$, what is m in terms of w?
    A) $w - 1$ B) $w + 1$ C) $2w - 1$ D) $2w + 1$

60. $1\frac{1}{4}$ subtracted from its reciprocal is

    A) $-\frac{9}{20}$ B) $\frac{1}{5}$ C) $-\frac{1}{20}$ D) $-\frac{1}{5}$

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61. The total number of feet in x yards. y feet, and = inches is

A) $3x + y + \dfrac{z}{12}$

B) $x + y + z$

C) $\dfrac{x}{36} + \dfrac{y}{12} + z$

D) $x + 3y + 36z$

62. If five triangles are constructed having sides of the lengths indicated below, the triangle that will NOT be a right triangle is:

A) 5, 12, 13

B) 3, 4, 5

C) 8, 15, 17

D) 12, 15, 18

63. Of the following, the one that may be used correctly to compute $26 \times 3½$ is

A) $(26 \times 0) + (26 \times ½)$

B) $(20 \times 3) + (6 \times 3½)$

C) $(20 \times 3½) + (6 \times 3)$

D) $(20 \times 3) + (26 \times ½) + (6 \times 3)$

64. What would be the marked price of an article if the cost was $12.60 and the gain was 10% of the selling price?

A) $11.34

B) $13.66

C) $13.86

D) $14.00

65. If the average weight of boys who are John's age and height is 105 Ib., and if John weighs 110% of the average, then how many pounds does John weigh?

A) 110

B) 115.5

C) 112

D) 113.5

66. In the first year of the United States Stickball League, the Bayonne Bombers won 50% of their games. During the second season of the league the bombers won 65% of their games. If there were twice as many games played in the second did the as in the first, what percentage of the games did the Bombers win in the first two years of the league?

A) 115%

B) 60%

C) 37.5%

D) 55%

67. If the weight of an apple is $\dfrac{4}{5}$ of its weight plus $\dfrac{1}{5}$ of an ounce, what is its weight of the apple?

A) 4

B) 3½

C) 5

D) 1

68. Nine playing cards from the same deck are placed as shown in the figure below to form a large rectangle of area 180 sq. in. How many inches are there in the perimeter of this large rectangle?

A) 29

B) 58

C) 64

D) 116

69. If each of the dimensions of a rectangle is increased 100%, the area is increased

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A) 100% B) 200% C) 300% D) 400%

70. A recipe for a cake calls for 2½ cups of milk and 3 cups of flour. With this recipe, a cake was baked using 14 cups of flour. How many cups of milk were required?

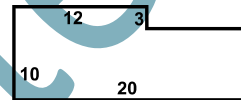A) $10\frac{1}{3}$ B) $10\frac{3}{4}$ C) 11 D) $11\frac{2}{3}$

71. What is 10% of $\frac{1}{3}$ x if $\frac{2}{3}$ x is 10% of 60?

A) 0.1 B) 0.2 C) 0.3 D) 0.4

72. In a school, there are 60% boys. Out of the total girls 30% have curly hairs. If the number of girls with normal hairs is 84. What is the total number of students in the school?

A) 200 B) 300 C) 467 D) 700

73. What is the area of the region enclosed by the figure

A) 176 B) 200 C) 240 D) 140

74. If each of 4 subsidiaries of Corporation R has been granted a line of credit of $700,000 and each of the 3 subsidiaries of Corporation has been granted a line of credit of $612,000, what is the line of credit granted to the fourth subsidiary of Corporation R?

A) 964,000 B) 88,000 C) 1312,000 D) None

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