National Level Science Talent Search Examination - 2012

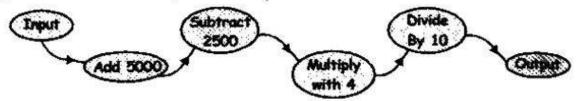
Class: V Mathematics

- What are the two consecutive prime numbers whose difference is 2 called ?
 - (A) Twin primes

(B) Even primes

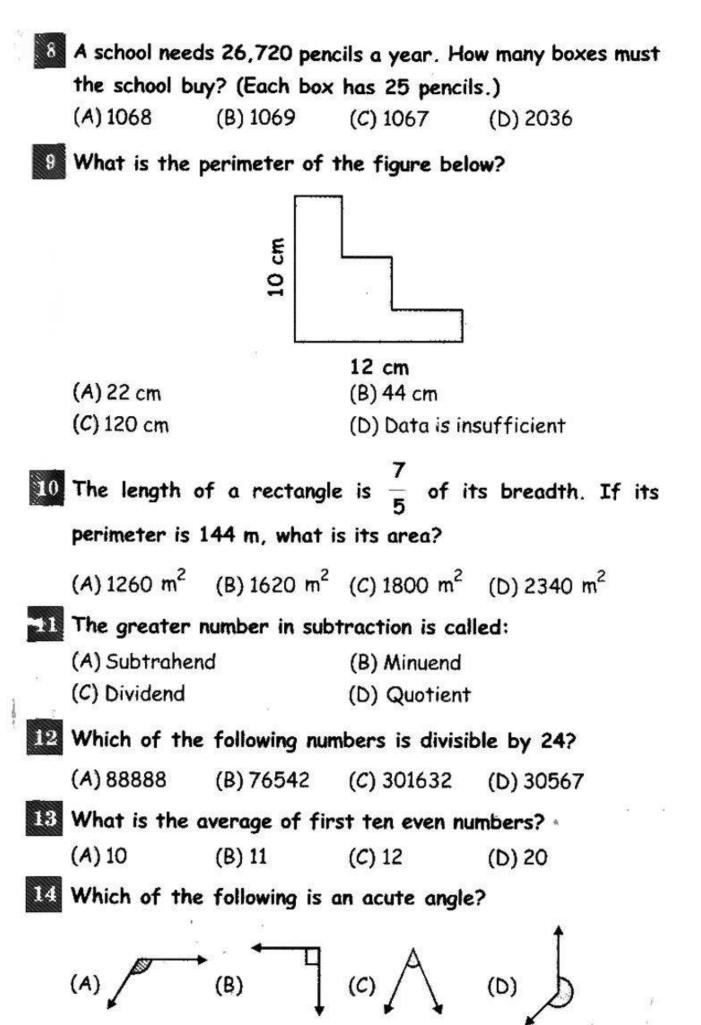
(C) Co - primes

- (D) Odd primes
- The drawing below is an input output machine.



Using this machine, when the input is 1500, what is the output?

- (A) 1600
- (B) 4000
- (C) 4950
- (D) 8000
- 8 Mukram buys 15 sandwiches at ₹ 225. How much amount Irfan has to pay to buy 21 such sandwiches?
 - (A) ₹ 205
- (B) ₹ 215
- (c) ₹ 305
- (D) ₹ 315
- What is the place value of 3 in the sum of 5.25 and 3.38?
- (A) $\frac{3}{10}$ (B) $\frac{3}{100}$ (C) $\frac{3}{1000}$
- (D) 0
- 5 What is the L.C.M. of 50, 70 and 30?
 - (A) 10
- (B)75
- (C) 1050
- (D) 2050
- The product of L.C.M. and H.C.F. of two numbers is 285. If one number is 15, then find the other number.
 - (A) 15
- (B) 16
- (C) 18
- (D) 19
- What number should be added to 73420 to get 91369?
 - (A) 17949
- (B) 27949 (C) 21949 (D) 104789



15 Which expression is true?

(A)
$$\frac{1}{5} > 0.2$$

(A)
$$\frac{1}{5} > 0.2$$
 (B) $\frac{1}{4} < 0.25$ (C) $\frac{1}{4} > 0.5$ (D) $\frac{1}{4} > 0.2$

(D)
$$\frac{1}{4} > 0.2$$

16 Which of the following are supplementary angles?

(A) 40° and 50°

(B) 35° and 155°

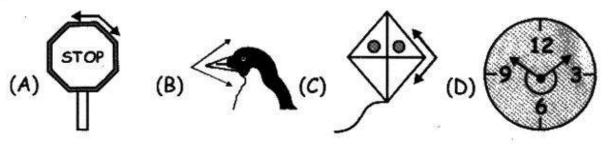
(C) 0° and 180°

(D) 70° and 90°

Which types of lines lie on the same plane and do not intersect at any point?

- (A) Perpendicular lines (B) Parallel lines
- (C) Intersecting lines
 - (D) Imaginary lines

All angles shown in the figures are obtuse EXCEPT.



- Jaya sold a book for ₹ 530 at a profit of ₹ 63. What was the cost of the book?
 - (A) ₹ 467
- (B) ₹ 473 (C) ₹ 567
- (D) ₹ 593

To get a quotient of 50, what number should be divided by 19?

- (A)900
- (B) 950
- (C) 1360
- (D) 1900

21 How many millions make 10 crores?

- (A)1
- (B) 10
- (C) 100
- (D) 1000

22 What is the difference of the greatest 7 digit number and the smallest 5 digit number?

(A) 9, 98, 099

(B) 99, 899

(C) 9, 98, 999°

(D) 99, 89, 999

23	What	is	the	H.C.F.	of	242,	484	and	363?
Classicality		-					1900 1900 1900		

(A) 11 x 2 x 3

(B) 11 x 11 x 2

(C) 11×11

(D) 11

Aayesha made a profit of ₹ 395 on a necklace she sold for ₹ 6235. At what price did she buy it?

- (A) ₹ 7777
- (B) ₹ 5840
- (C) ₹ 6630 (D) ₹ 9999

25 Find the difference in time between 06: 45 a.m. and 07: 25 p.m.

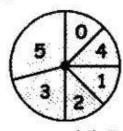
(A) 40 minutes

- (B) 10 hours, 40 minutes
- (C) 13 hours, 30 minutes (D) 12 hours, 40 minutes

26 If reciprocal of a number is $1\frac{1}{7}$, then what is that number?

- (A) $1\frac{7}{4}$ (B) $\frac{17}{4}$ (C) $\frac{11}{7}$ (D) $\frac{7}{11}$

27 Identify the number of the only segment which has obtuse angle in the below figure.



- (A) 2
- (B)4
- (C)5
- (D)3

28 How many numbers containing 8 in their tens place are there between 300 and 400?

- (A)9
- (B) 10
- (C) 19
- (D) 20

29 If the H.C.F. of two numbers is 1, then they are called:

- (A) Prime numbers
- (B) Composite numbers
- (C) Co prime numbers
- (D) Odd numbers

	at I form a new	Charles of Salar	107 007	1						
30	Which numbe	r is equal to	$\left(\frac{0.7}{0.07} + \frac{0.07}{0.7}\right)$	}						
	(A) 70.7	(B) 10.1	(C) 77.7	(D) 10.7						
31	What is the	sum of 12.8,	14.62 and 23	3.003?						
	(A) 50.423	(B) 49.423	(C) 49.473	(D) 50.083						
32	Which of the	following is a	obtained when	1690 is rounded to						
	the nearest t	housand?	So	10						
2		(B) 2000	(C) 1600	(D) 1000						
33	Find the valu	e of the expr	ression below.							
	2012+2012+2012+2012+2012+2012									
	20:	12+2012+201	2+2012							
	(A) 6036	(B) 2012	(C) $\frac{4}{7}$	(D) 1 3/4						
34	M.S.Dhoni we of India is M.S. Dhoni is	as divisible by 302 runs, 1 s:	11,7 and 2. then find th	n, runs scored by If the total score e runs scored by						
	(A) 144	(B) 154	(C) 124 (D) [Data is not sufficient						
35	Write the Ro	Write the Roman numeral for 24.								
	(A)XXVI	(B)XXIV	(C) XXIIII	(D) XXXIV						
36	Find the num	ber which rep	olaces ?							
	9507		3145							
	(A) 1349204	(B) 5697086	(C) 5769086	(D) 6834567						

37 Four students Kartik, Hari, Akhil and Pavan wrote Roman numerals on their slates as given below.



Who wrote the least number?

- (A) Kartik
- (B) Hari
- (C) Akhil
- (D) Pavan

38 Which number is the successor of the smallest 6-digit number?

(A) 100 000

(B) 10 001

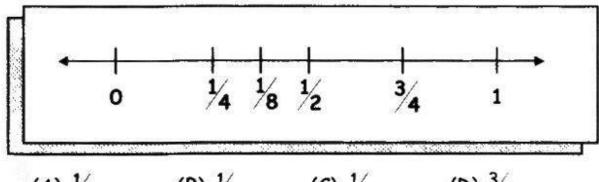
(C) 100001

(D) 9 99 999

39 Which of the following statements is false?

- (A) If we join any two points on a circle, we get a diameter of the circle.
- (B) A diameter of a circle contains the centre of the circle.
- (C) The length of a circle is called its circumference.
- (D) A semicircle is an arc.

Which fraction on the number line below are in the wrong place?

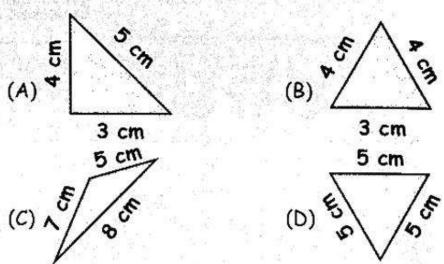


- (A) 1/4
- (B) $\frac{1}{8}$
- (C) ½
- (D) $\frac{3}{4}$

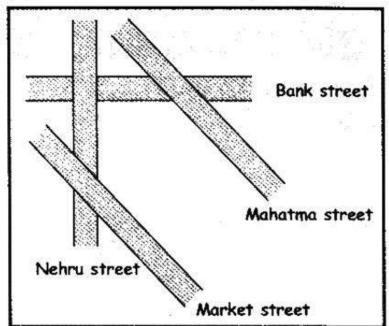
What is the measure of the third angle in a right angled triangle, whose one angle is 52°?

- $(A) 38^{\circ}$
- (B) 48°
- (C) 52°
- (D) 88°

42 Which of the following triangles is equilateral?



43 A map of four streets is shown below.



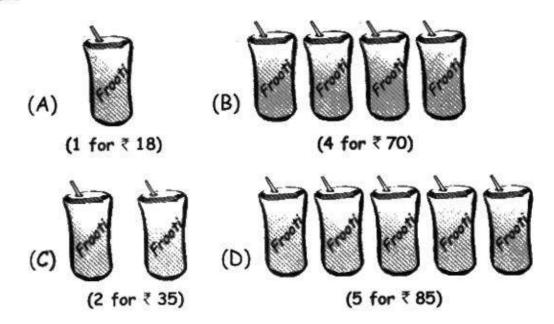
Which two streets appear to be perpendicular to each other?

- (A) Mahatma street and Market street.
- (B) Mahatma street and Nehru street.
- (C) Market street and Bank street.
- (D) Nehru street and Bank street.

Which of the following rules is correct?

- (A) Quotient x Dividend + Remainder = Divisor.
- (B) Quotient x Divisor + Remainder = Dividend.
- (C) Divisior x Dividend + Remainder = Quotient.
- (D) Quotient x Remainder + Dividend = Divisor.

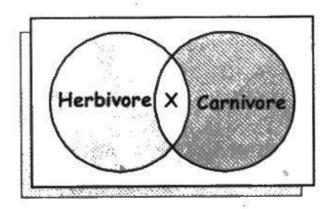
45 Find the better buy.



Class: V

General Science

Observe the venn diagram given below.



'X' is most probably a:

- (A) Tiger
- (B) Deer
- (C) Giraffe
- (D) Bear
- Which of the following helps to move turbines at electric power stations to produce electricity?
 - (A) Water
- (B) Wind
- (C) Air
- (D) Chemicals
- Which of the following activities is due to the force of gravity?
 - (A) Train running on track.
- (B) An apple falling from a tree.

(C) A flying bird.

(D) A ball rolling on the ground.

49 Match the following words in Column-I with their answers in Column-II.

	Column I		Column II
α	Force	i	Chemical energy
Ь	Battery	íi	A push or a pull
С	Energy	iii	Energy in standing water
d	Dam	iv	Capacity of doing work.

- (A) a-i, b-ii, c-iii, d-iv
- (B) a-iv, b-iii, c-ii, d-i
- (C) a-ii, b-i, c-iv, d-iii
- (D) a-iii, b-ii, c-i, d-iv

50 Which of the following helps to fill medicine in syringe?

- (A) Chemical energy
- (B) Hardness of needle
- (C) Muscular energy
- (D) Air pressure
- 511 Information given below is about the composition of air.

Composition of	Air
Nitrogen	79%
Oxygen	16%
Carbon dioxide	4.5%

Given composition of air is present at which of the following situations?

- (A) At the forest
- (B) Near a park
- (C) Exhaled air in a room
- (D) Near a nursery

Which of the following activities cause pollution of air?

- (A) Carbon dioxide released by human beings and plants.
- (B) Smoke released by factories, thermal plants and automobiles.
- (C) Growing grass plants.
- (D) Washing animals and clothes.

53 Which of the	se is NOT a char	racteristic featur	e of aquatic animals?			
(A) Dry skin	with hair	(B) Gill chambers				
(C) Moist ski	n	(D) Webbed toes				
DUSCONDUCK	and dry seed ed dispersal m		d by which of the			
Observe the	groups in the	table given be	low.			
	Plant eater	Animal eater				
	Deer	Snake				
	Rabbit	Fox				
following an (A) Goat Which of the dark and me	imals could 'X' (B) Elephant	be? (C)Rat a decomposer	ups. Which of the (D) Vulture and grows well in (D) Wolffia			
through cut	skin?		the entry of germs			
(A) Tetanus		(B) Jaundice	couch			
(C) Dysentry (D) Whooping cough The information given below is about the characteristics of a type of soil.						
1 F	las large parti Good oxygen su Vater can dra	icles and big air apply in quickly	spaces			
Which of the	ne following crop	ps can be grown	in the soil described			
(A) Maize	(B) Coconut	(C) Paddy	(D) Groundnut			

consumetry a	COSTO CONTRACT CONTRACT CONTRACTOR	NOTE THE PERSON OF THE PERSON	MISSINGS COVERS IN	Mr. Control Care					
59	Which of the	following is t	he best hidir	ng place for a tiger?					
	(A) Small grass (C) Tall grasses	F 112-	(B) Deep burrows (D) Sand						
60	Which of the desert"?	following o	animals is called "Ship of the						
	(A) Bear	(B) Yak	(C) Camel	(D) Zebra					
61	The frog is a presence of w (A) Gills (C) Webbed to	hich of the 1	No. of the contract of the con	TO THE STATE OF TH					
62	Which of the following animals use gills as breathing org								
	(A) Duck	(B) Frog	(C) Fish	(D) Tortoise					
63	Choose the odd one from the following.								
	(A) Snake	(B) Lizard	(C) Frog	(D) Rat					
64	The animals given below are similar as they have:								
		Snail	Prawn	rab					
	(A) Scales	(B) Feelers	(C) Shells	(D) Moist skin					
65	Which of the of water?	following fact	- 0	ne rate of evaporation					
	(A) Wind	200	(B) Temper (D) All of t	2					
ce	(C) Surface as Which of the			Contract to harden					
00	(A) Trees	(B) Rocks	(C) Floods	15 A.X					
	(A) ITEES	(D) NOCKS	(0) 1 10003	www.examrace.com					

67	they produce seeds? (A) Vegetative buds	pollinated and fertilised before (B) Fruits (D) Ovule
68	Which of the following is to mixture of iron filings and (A) Adding water to the mixt (B) Heating the mixture. (C) Handpicking the sawdust (D) Using a magnet.	ure.
69	Which of the following type plants? (A) Sandy soil (C) Silt	(B) Loam soil (D) Clay soil
70	Which of the following dise of germs through contamina (A) Leprosy (C) Cholera	cases can occur due to the entry ated water? (B) Whooping cough (D) Tuberculosis
71	Which of the following is p	present in a cloud?
	(A) Carbon dioxide gas (C) Tiny water droplets	(B) Nitrogen gas (D) Oxygen gas
72	The land reclaimed after lethe following processes? (A) Building park (C) Drilling wells	(B) Practising agriculture (D) Construct water tank
73	Which of the following pro	cesses increases soil fertility?
		(B) Using organic manure.

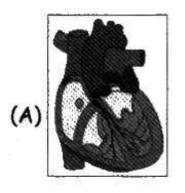
Abhi dissolved some sugar and salt in water. He got a mixture of sugar, salt and water. What is the solvent in the experiment? (A) Sugar (B) Salt (C) Water (D) Sugar and salt solution Which of the following characteristics is not suitable to desert habitat? (A) Presence of large hump on its back. (B) Thick layer of fur on the skin. (C) Pad like feet. (D) Thick and dry skin. 76 Which of the following forms of energy is produced when fireworks are burnt? (B) Chemical energy (A) Kinetic energy (D) Mechanical energy (C) Light energy Which of the following dispersal agents helps the fruits given below to disperse their seeds? (A) Explosive mechanism (B) Animals (C) Wind (D) Water Which of these processes does not absorb heat? (A) Boiling (B) Evaporation (C) Melting (D) Condensation Which of the following statements is not TRUE about lotus plant? (A) Spongy and swollen leaf stalks. (B) Needle like leaves. (C) Stomata on the upper surface of leaves. (D) Leaves coated with wax.

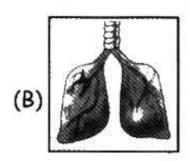
- 80 Which of the following joints helps in the rotation of arm in a full circle ?
 - (A) Gliding joint

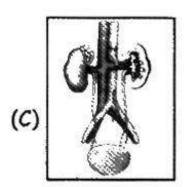
(B) Ball and socket joint

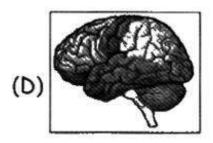
(C) Pivot joint

- (D) Hinge joint
- Which of the following organs in the human body controls the entire body?









82 Shreya made the following notes about a plant.

Stem contains water and leaves are small and needle like. Long roots grow deep into the ground.

In which of the following habitats do we find the plant described above?

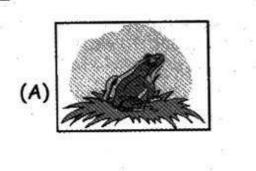
(A) On mountains

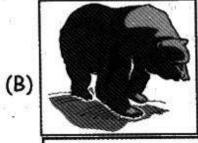
(B) In polar regions

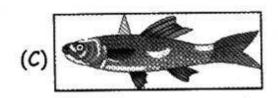
(C) In deserts

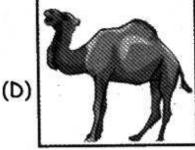
(D) In forests

88 Which of the following animals lives in deserts?









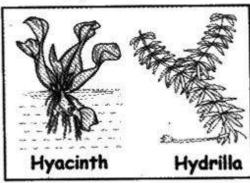
84 Observe the table given below.

P	Plant eating animals
Q	Animals eating flesh of other animals
R	Both plant and animal eating
s	Organisms preparing their own food

Which of the following best represents heterotrophs?

(A) P and S only

- (B) Q and 5 only
- (C) P, R and S only
- (D) P, Q and R only
- 85 Which part of the bear keeps it warm in cold weather?
 - (A) Legs
- (B) Hooves
- (C) Fur
- (D) Claws
- 86 Observe the aquatic plants given below.



In which of the following ways are they different?

(A) Colour

- (B) Position in the pond
- (C) Ability to make food
- (D) Ability to produce oxygen

(A) Boiling	(B) Mixing salt to water
(C) Freezing	(D) Filtration
Study the characteri	istics given below.
^ They have	generally tall and straight e needle like leaves and tructures instead of flowers
Such trees are usual	ly found in:
(A) Hilly areas	(B) Marshy areas
(C) Forests	(D) Grasslands
AND STREET AND THE WAS STREET BY STREET AND STREET	in bad breath, cavities and tooth ach ng causes tooth decay ? (B) Fungi (D) Bacteria
	ng is NOT a form of energy?
(A) Gravity	(B) Light
(M) Of avily	(-,,

91	What is the full form of CNN?								
146	(A) Cable News Network (C) Cable Network News								
92	What is the study of celes	stial bodies called?							
	(A) Cytology (B) Physics	(C) Astronomy (D) Biology							
93	Which breed of dog is the (A) Dalmatian (B) Pomerian	cartoon character Scooby Doo? (C) Great Dane (D) Alsetian							
94	Which state is to the Nort	Which state is to the North of Andhra Pradesh?							
	(A) Karnataka (C) Kerala	(B) Madhya Pradesh (D) Tamil Nadu							
95	Which vitamin is present in	amla?							
	(A) Vitamin B (B) Vitamin C	(C) Vitamin A (D) Vitamin B ₁₂							
96		nis (C) Hockey (D) Badminton							
97	Who invented the decimal notation in arithmetic?								
	(A) The Romans	(B) The Arabs							
	(C) The Greeks	(D) The Indians							
98	Who wrote the book "Discovery of India"?								
	(A) Mahatma Gandhi	(B) Jawaharlal Nehru							
	(C) Subhash Chandra Bose	(D) R. K. Narayan							
99	What is the full form of ATM?								
	(A) Automated Teller Machine (B) Any Time Money (C) Automatic Teller Machine (D) Authorised Transfer of Money								
100	What is a shop that sells r								
_60	(A) Mall (B) Pharmacy	(C) Boutique (D) Hospital							

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