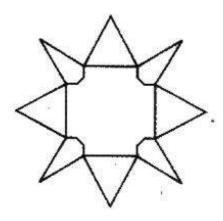
National Level Science Talent Search Examination - 2014

Class: VI

Mathematics



In the given figure, what is the difference between the number of angles that are smaller than a right angle and the number of right angles?



- (A) 8
- (B) 16
- (C) 24
- (D) 4



The sum of four consecutive positive integers is \dot{x} . In terms of \dot{x} , what is the sum of the second and third integers?

(A) $\frac{x}{2}$

(B) $\frac{x-12}{4}$

(C) $\frac{x-6}{2}$

(D) 2x + 6



How much should Ram pay for 'x' pencils and 'y' sharpeners if each pencil costs ₹ 4 and each sharpener costs ₹ 3?

 $(A) \neq (4y + 3x)$

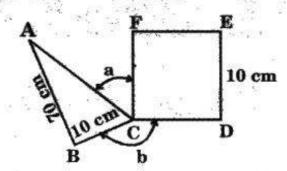
(B) ₹(4x + 3y)

(C) (4x - 6y)

(D) $\not\equiv 4(x-6)y$



Square CDEF and right triangle ABC have only one common point C. Identify the correct inequality.

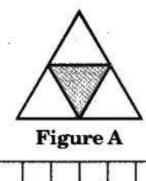


(A)
$$a+b < \angle ACB + \angle CDE$$
 (B) $a+b < 2 \angle CDE$

(C)
$$a+b>\angle ACB+\angle DCF$$
 (D) $a+b>3\angle DEF$



How many parts should be shaded in the figure B to make it represent the same fraction as the shaded part of the figure A?



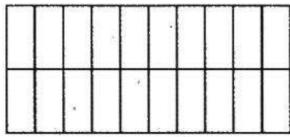


Figure B

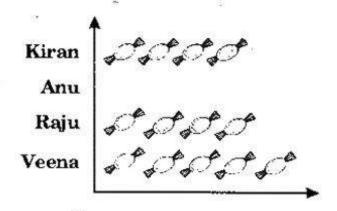
- (A) 15
- (B) 4
- (C) 8
- (D) 5



Vijay and Vicky chose two numbers and found that their product is zero. Which of the following statements is false?

- (A) Both of them chose zero.
- (B) Both of them chose non-zero whole numbers.
- (C) Only Vijay chose zero.
- (D) Only Vicky chose zero.

The given figure is an incomplete pictograph which shows the number of sweets each child has.



Key: Each 💉 represents 2 sweets.

The total number of sweets the four children have is 30. How many sweets does Anu have?

- (A) 2
- (B) 4
- (C) 34
- (D) 17

A playground 250 m long and 120 m broad is to be fenced with wire. How much wire is needed?

- (A) 370 m
- (B) 230 m
- (C) 740 m
- (D) 540 sq. m

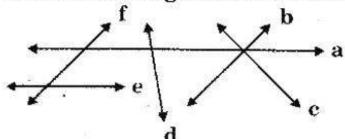
What is the sum of all the prime numbers between 90 and 100?

- (A) 188
- (B) 281
- (C) 376
- (D) 97

The peak of a mountain is 6300 m above sea-level. A mine at the foot of the mountain is 39060 m below sealevel. What is the vertical distance of the mine from the mountain peak?

(A) -45360 m (B) -32760 m (C) 45360 m (D) 32760 m

Which of the following lines is a transversal?



- (A) Line b
- (B) Line f
- (C) Line a
- (D) Line d

P	A number is increased by 25% and then decreased by 20%. What percent of the original number is the resultant number?
	(A) 105 (B) 100 (C) 120 (D) 125
D	P, Q, R and S are four collinear points.
3	If PQ > RS, which of the following must be true?
	I. PQ>QR II. PR>QS III. PR>RS
	(A) II only (B) I only
	(C) II and III only (D) III only
	The areas of squares P and Q are in the ratio 4:9. If the area of P is 144 sq cm, find the perimeter of Q.
	(A) 17 cm (B) 72 cm
	(C) 27 cm (D) 324 cm
	A table top is covered with 25 squares of equal size. The side of each square is 3 cm. What is the area of the table top?
100	(A) 300 sq. cm (B) 225 cm
	(C) 225 sq. cm (D) 300 cm
	Three squares P, Q and R are such that the perimeter
	of P is $\frac{2}{3}$ the perimeter of Q, and the perimeter of Q is
	$\frac{2}{3}$ the perimeter of R. If the area of P is 16 sq. units,
	what is the area of R? (A) O as units (B) 81 sq units
S.	(A) 9 sq. units (B) 81 sq. units (C) 64 sq. units (D) 36 sq. units
18	(C) 64 sq. units (D) 36 sq. units

If the radius of a circle is increased by 3 times, by how many times does its diameter increase?

- (A) 4
- (B) 6
- (C) 3
- (D) 8



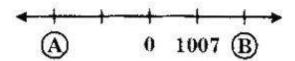
Devi buys 4 times as many pencils as Shilpa. If 30 pencils remained in the shop, which expression gives the number of pencils before the girls bought pencils?

- (A) 5p + 30 (B) p + 30 (C) 4p + 30

- (D) 5p 30



Which of the following relations is true?



- (A) |A + B| > |A| + |B| (B) |A + B| = A + B
- (C) |A + B| = |A B| (D) |A B| < |A + B|



If 'a', 'b', 'c' and 'd' are four consecutive multiples of 8 and a < b < c < d, what is the value of (a - c) (d - b)?

- (A) -256 (B) 16
- (C) 256
- (D) -16



A $36\frac{1}{3}$ m long rope, was cut into three parts measuring

 $12\frac{2}{5}$ m, $13\frac{1}{9}$ m and $5\frac{4}{15}$ m respectively. What length of the rope was left?

- (A) $5\frac{1}{6}$ m (B) $7\frac{2}{5}$ m (C) $9\frac{1}{6}$ m (D) $11\frac{2}{5}$ m



Which of the following numbers is perfect?

(A) 6

(B) 28

(C) 34

(D) Both (A) and (B)

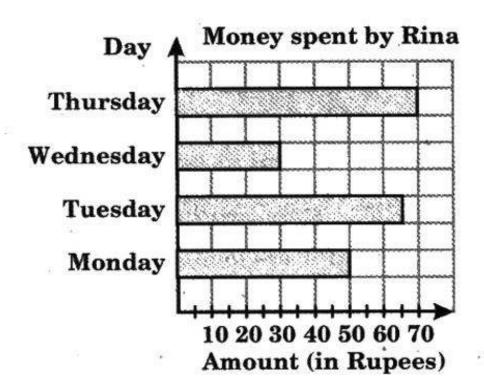


The lengths of two sides of a triangle are 5 cm and 7 cm. If the third side is an integer, what is the least possible perimeter of the triangle?

- (A) 17 cm
- (B) 12 cm (C) 14 cm
- (D) 15 cm



The given figure is a bar graph which shows the amount of money Rina spent in her school canteen last week from Monday to Thursday.



On Thursday, Rina spent her money on 2 packets of sweets. How much did each packet cost?

- (A) ₹ 15
- (B) ₹ 25
- (C) ₹ 35
- (D) ₹ 40



What is the ratio of the least prime number to the least composite number?

- (A) 1:2
- (B) 2:3



Identify the type of energy stored in an accumulator.

- (A) Chemical energy
- (B) Electrical energy
- (C) Kinetic energy
- (D) Potential energy



An example of non-periodic motion is

(A) heartbeat.

- (B) an earthquake.
- (C) the pendulum of a clock. (D) the rotation of the earth.



A steel cylinder placed under a lamp is shown in the figure. It is moved from position P to Q, then to R and next to S.





The lengths of shadows formed by steel cylinder at positions P, Q, R and S are tabulated as follows.

Position of Steel Cylinder	P	Q	R	s	
Length of the Shadow	?	12 cm	5 cm	19 cm	

What is the length of the shadow of the steel cylinder at position P?

- (A) 7 cm
- (B) 10 cm
- (C) 16 cm
- (D) 21 cm



A bar magnet is cut into four equal parts. It is joined again using quick fix. The new magnet will behave as

- (A) four bar magnets.
- (B) four ordinary rods.
- (C) one ordinary bar magnet.(D) one ordinary iron rod.



A camera flash is used in front of a mirror to take a photograph of the image of an object. The photograph of the image formed is

(A) clear.

(B) bright.

(C) beautiful.

(D) completely white.



Observe the given figure.



Which of the following is suitable to use for finding the length between P and Q?

- (A) Measuring tape
- (B) Spring balance

(C) Sun dial

(D) Cubit



A button cell is used in wrist watches, calculators, mini-microphones, ear devices etc. Identify the metals used to make it.

- (A) Nickel and Steel
- (B) Iron and Aluminium
- (C) Nickel and Cadmium
- (D) Gold and Silver

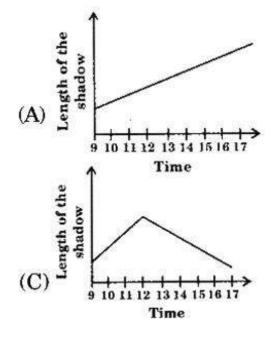


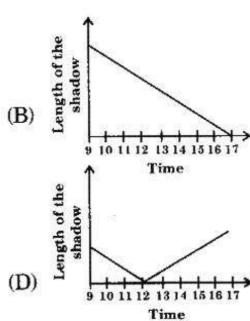
Identify the INCORRECT statement about writing the symbols of units.

- (A) They are usually written in small letter.
- (B) They must be given in plural form.
- (C) They must not be followed by a fullstop unless given at the end of a sentence.
- (D) Both (A) and (C)



Among the given graphs, which one correctly shows the length of the shadow of an object placed in the sun from 9 to 17 hours?







Which of the given materials allows the passage of current through it?

- (A) Diamond (B) Wood (C) Graphite (D) Rubber



Observe the given figure.



Which type of motion is exhibited by the bicycle when it is moving on a straight road?

(A) Circular

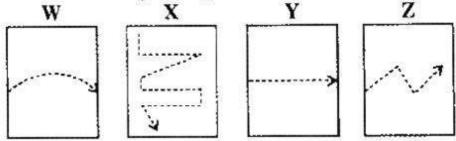
(B) Random

(C) Mixed

(D) Resultant



Observe the figures given in the boxes.



Which of the figures shows the propagation of light?

- (A) Y
- (B) W
- (C) X
- (D) Z



Which of these kinds of motion is exhibited by the cricket ball delivered by the bowler?

- (A) Linear and spin
- (B) Rotatory and linear
- (C) Linear and rotatory
- (D) Rotatory and spin

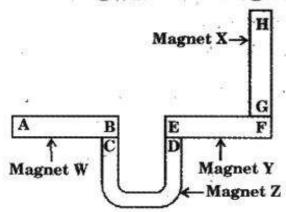


Which of the following statements is true?

- (A) Magnetic substances always repel a magnet.
- (B) Liquids are non-conductors of electricity.
- (C) Distilled water conducts electricity.
- (D) Magnetic poles exert maximum attraction.



Observe the arrangement of magnets W. X. Y and Z.



Identify the correct arrangement of poles of the given magnets.

	Repel	Attract
(A)	E, D	C, G
(B) _	B, F	D, F
(C)	A, C	E, H
(D)	D, E	A, D



Which of the following alphabets appear the same after lateral inversion when viewed through a plane mirror?

- (A) C, K, Z (B) D, J, N (C) G, P, R
- (D) A, H, V

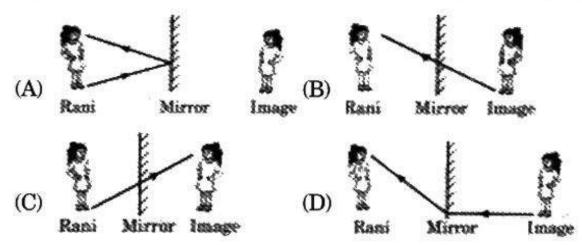


Identify the aquatic animal that produces electric current in its body to scare its enemies by giving shocks.

- (A) Sea horse (B) Whale (C) Crocodile (D) Eel



Rani stood in front of a mirror. Which of the following figures shows how she is able to see her feet in the mirror?





Which of the given arrangements of batteries in a torch light helps it to produce light?

(A)	+	(+ -	- +	(B) [-	- 1	- +	F +
(-			2000 E 100 E 200				

0

Which of the following is true?

- (A) 1 inch = 24.5 mm
- (B) 1 metre = 1000 cm
- (C) 1 foot = 304.8 mm
- (D) 1 fathom = 10 feet

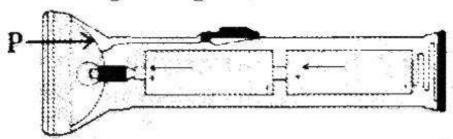


Identify the correct group of objects.

Objects									
Transparent	Translucent	Opaque							
Glass jar	Cardboard	Plastic shee							
Wooden board	Mirror	Wall							
Air	Ground glass	Brick							
Wax coated paper	Wooden chair	Metal							



Observe the given figure.

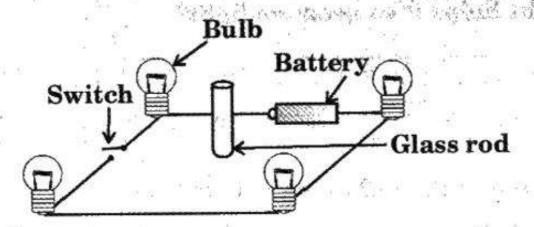


The curved surface labelled P is painted black. What do you notice, when the torch light is switched on?

- (A) The intensity of light increases.
- (B) The image of the object placed in the path of light is inverted.
- (C) The intensity of light decreases.
- (D) The light from the torch is blocked by surface P.



Observe the set up shown in the following figure.



How many shadows are formed when the switch is closed in the given circuit?

- (A) 0
- (B) 1
- (C) 2

(D) 4

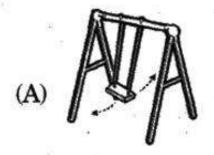


Identify the metals in the alloy used to make permanent magnets.

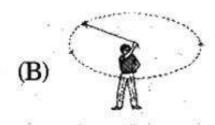
- (A) Copper and Zinc
- (B) Aluminium, Nickel and Cobalt
- (C) Iron and Carbon
- (D) Copper and Tin



In which of the given figures is oscillatory motion observed?











What is the process by which ammonium chloride changes into gas?

(A) Decantation

- (B) Sublimation
- (C) Condensation
- (D) Sedimentation



Identify the non-combustible material from the following.

(A) Wood

(B) Paper

(C) Husk

(D) Porcelain



Which of the following is a slow change?

- (A) Igniting a piece of cloth dipped in kerosene.
- (B) Switching on an electric bulb.
- (C) A few drops of sodium chloride solution added to a solution of silver nitrate.
- (D) The fermentation of grape juice to make wine.



What happens when excess sugar is added to a glass of water at room temperature?

- (A) Water can dissolve any amount of sugar.
- (B) Sugar crystals remain as sediment after forming a saturated solution.
- (C) Water does not dissolve sugar.
- (D) It forms an unsaturated sugar solution.

Match the substances in Column I with their contaminants in Column II.

	Column I		Column II
i.	Milk	p.	Papaya seeds
ii.	Mustard	q.	Contaminated water
iii.	Black pepper	r.	Argemone seeds

(A)
$$i - r$$
, $ii - p$, $iii - q$ (B) $i - p$, $ii - r$, $iii - q$

(B)
$$i - p$$
, $ii - r$, $iii - q$

(C)
$$i - q$$
, $ii - r$, $iii - p$ (D) $i - p$, $ii - q$, $iii - r$

(D)
$$i - p$$
, $ii - q$, $iii - r$



Which of the following are the examples of periodic change?

- Rotation of the moon on its axis (i)
- (ii) Appearance of Halley's comet in the sky
- (iii) Revolution of the earth around the sun
- (iv) Occurrence of thunder and lightning
- (A) Only (i) and (ii) (B) Only (iii) and (iv)
- (C) Only (i), (ii) and (iii) (D) Only (i) and (iii)



Water consumption for a family of four persons in a month of 30 days is 6000 litres. What is the water consumption per head per day?

- (A) 40 l
- (B) 50 l
- (C) 60 l
- (D) 70 l



Which of the following requires a sieve for separating its constituents?

- (A) Flour and bran of wheat
- (B) Tea and its decoction
- (C) Salt solution
- (D) Mixture of iron filings and sand



Which of the given properties of rubber over metals is preferred for making soles of shoes?

- Rubber is more flexible than metals. (i)
- A rubber sole is stronger than a metal sole. (ii)
- Rubber shoes float on water whereas metal shoes (iii) will sink.
- Rubber is not as hard as metals, so it can be easily cut (iv) into suitable shapes.
 - (A) Only (i) and (ii)
- (B) Only (ii) and (iii)
- (C) Only (i) and (iv)
- (D) Only (ii) and (iv)

Which of the following is an example of reversible change?

- (A) Making of caramel (B) Curdling of milk
- (C) Fermentation of dough_(D) Melting of wax

Which of the given properties characterise metals?

- (A) Strong and hard
- (B) Soft and brittle
- (C) Non-conductor of electricity
- (D) Non-ductile



Which of the following is observed in the moon between the new moon day and the full moon day?

- (A) Increase in its speed of rotation
- (B) Change in temperature
- (C) Change in shape
- (D) Decrease in size

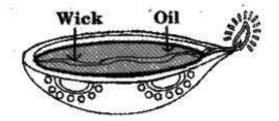


Through which of the following processes is water vapour added directly to the atmospheric air?

- Evaporation (i)
- (ii) Precipitation
- (iii) Condensation
- (iv) Transpiration
- (A) Only (i), (ii) and (iii)
- (B) Only (ii), (iii) and (iv)
- (C) Only (i), (ii) and (iv)
- (D) Only (i) and (iv)



Observe the figure of an earthen lamp.



Which process enables the lamp to continue to burn once it is lighted up?

- (A) Vapourisation
- (B) Evaporation
- (C) Condensation
- (D) Sublimation



Which of the given statements is true of crystallisation?

- (A) It involves chemical separation and sedimentation.
- (B) Crystals of pure substances are formed with definite geometrical shape.
- (C) The left-over liquid is called solute.
- (D) It involves separation of solid solid mixture.

Overhead cables need not be insulated because

- (A) air is a bad conductor of electricity.
- (B) air is a good conductor of electricity.
- (C) bare wires conduct electricity better than insulated wires.
- (D) atmospheric gases have no effect on non-insulated cables.



Identify the colour of the solution formed when copper sulphate crystals are added to water.

- (A) Green
- (B) Black
- (C) Blue
- (D) Pink



Which of the following is an example of an exothermic reaction?

- (A) Dissolving glucose in water
- (B) Dissolving quick lime in water
- (C) Evaporation of water
- (D) Evaporation of thinner



Study the given table of mixtures.

(i) Grains

- + Husk
- (ii) Iron filings
- + Sand
- (iii) Ammonium chloride + Common salt

Which of the following techniques are correct to separate the given mixtures?

-	Separation Techniques								
	(i) *	(ii)	(iii)						
$(\mathbf{A})^{'}$	Filtration	Sedimentation	Decantation						
(B)	Handpicking	Sedimentation	Filtration						
(C)	Winnowing	Magnetic separation	Sublimation						
(D)	Evaporation	Distillation	Sublimation						



Study the following groups of materials based on their magnetic properties.

X	000000
Iron	1000
Cobalt	
Nickel	



Which of these can be grouped under X?

(A) Mercury

(B) Aluminium

(C) Platinum

(D) Lead



Which of the following is NOT a stem?

(A) Potato

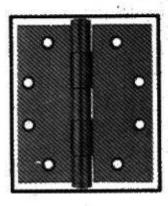
(B) Turmeric

- (C) Sweet potato
- (D) Ginger



Which of the following joints work in the same way as the given figure?

and the first of the same of t



(A) Pivot joint

(B) Gliding joint

(C) Hinge joint

(D) Saddle joint



I anchor the plant to the ground. I absorb water and mineral salts from the soil. Who am I?

- (A) Root
- (B) Stem
- (C) Leaf
- (D) Flower

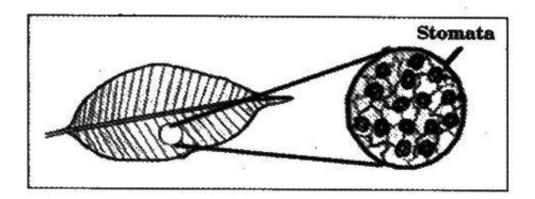


Which of the following adaptations help a polar bear to survive in the Arctic region?

- (i) Thick white fur to camouflage itself
- (ii) Thick layer of fat under its skin
- (iii) Flippers to enable it to swim fast and catch its prey
 - (A) Only (i) and (iii)
- (B) Only (ii) and (iii)
- (C) Only (i) and (ii)
- (D) (i), (ii) and (iii)



The diagram shows stomata, which are usually found on the underside of leaves.



Which of the following is NOT a function performed by them?

- (A) Trap sunlight to make food for the plant.
- (B) Take in carbon dioxide and give out oxygen.
- (C) Take in oxygen and give out carbon dioxide.
- (D) Allow excess water to evaporate from the leaves.



Two different animals have the following characteristics in common.

- They are aquatic animals.
- They give birth to their young ones and (ii) suckle them.
- (iii) They have blow holes and breathe through lungs.

The animals are likely to be

- (A) a turtle and a frog.
- (B) a sword fish and a shark.
- (C) a dolphin and a whale. (D) a turtle and a penguin.



If you have a broken leg, which bone is fractured?

(A) Radius

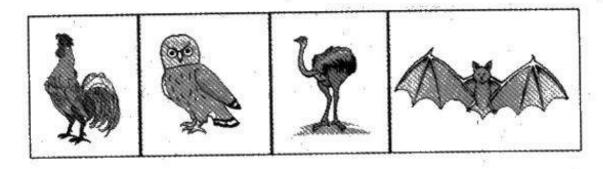
(B) Ulna

(C) Tibia

(D) Humerus



The bat does NOT belong to the same group of animals as the other three because it



- (A) is a carnivore.
- (B) can fly.
- (C) hunts at night.
- (D) does not have feathers.



The following statements describe one of the systems found in the human body.

- (i) It is a framework made of 206 bones of different shapes.
- (ii) It supports the body and gives it a shape.
- (iii) It protects the delicate organs in the body.
- (iv) Muscles can be attached to it so that the body can move.

Identify the system.

- (A) Digestive system
- (B) Muscular system
- (C) Skeletal system
- (D) Respiratory system

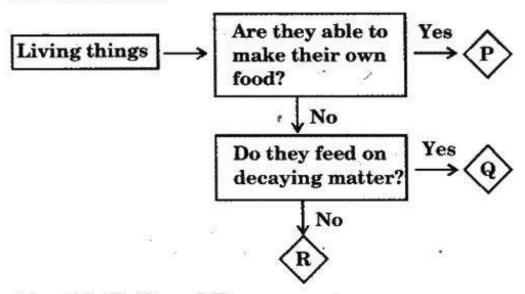


Which one of the following groups of animals includes only omnivores?

- (A) Man, Sparrow, Goat, Elephant
- (B) Lion, Lizard, Rabbit, Deer
- (C) Ant, Man, Crow, Rat
- (D) Camel, Snake, Lizard, Cow



The flow chart given shows how some living things are classified.



Identify P, Q and R.

	P	Q	R		
(A)	Mouse	Mushroom	Mango		
(B)	Grass	Mould	Frog		
(C)	Mushroom	Grass	Mould		
(D)	Fern	Grasshopper	Moss		



Which part of a plant is broccoli?

- (A) Root
- (B) Stem
- (C) Flower
- (D) Leaf



Which of the following is NOT a cereal?

- (A) Paddy (B) Maize
- (C) Wheat
 - (D) Gram



Which of the following foods is a big source of protein?

- (A) Maize
- (B) Sugar
- (C) Meat
- (D) Jowar



Deficiency of vitamin A leads to

(A) scurvy.

- (B) rickets.
- (C) poor night vision.
- (D) beri-beri.

What is the function of roughage?

- (A) It provides energy.
- (B) It helps in the absorption of nutrients.
- (C) It helps to prevent constipation.
- (D) It helps in the digestion of food.



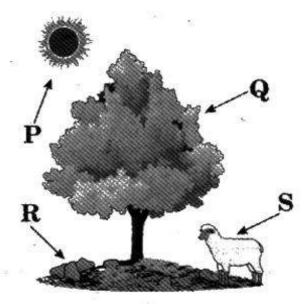
In which of the following are pollens produced?

- (A) Anther (B) Ovary
- (C) Style
- (D) Stigma

Property of the second



In an ecosystem there are living things and non-living things.



Which labelled part in this ecosystem is an autotroph?

- (A) P
- (B) Q
- (C) R
- (D) S



Rib cage is formed by

- (A) ten pairs of ribs.
- (B) twelve pairs of ribs.
- (C) seven pairs of ribs.
- (D) six pairs of ribs.



Which of these have fixed joints?

(A) Cranium

(B) Hands

(C) Legs

(D) Backbone

(A) Chess (B) Polo

(C) Horse riding

(D) Tennis

What is the full form of BCCI?

(A) Board of Cricket Champions in India

(B) Board of Cricket Council in India

(C) Board of Control for Cricket in India

(D) Board of International Cricket Council

What was the name of India's first unmanned lunar spacecraft launched in October 2008?

(A) Chandravahaan 1

(B) Chandrayaan 1

(C) Chandravimaan 1

(D) Chandrakhoi 1

U	A		Ü	K	0	В	C	A	В	
10.	20.	30.	64	50.	.09	70.	80.	06	000 Ce. COM.	
٥	8	U	۵	8	U	C	J	В	xamra	
6	19.	65	39.	49.	59.	69	79.	66	86.WW	
v	A	U	A	A	A	8	Ω	В	v	
8.	18.	28.	38.	48.	58.	.89	78.	.88	98	
В	C	В	A	C	8	U	U	A	m	
7.	17.	27.	37.	47.	57.	67.	77.	87.	97.	
В	В	A	D	U	U	A	v	U	A	
9	16.	26.	36.	46.	56.	99	76.	86.	98	
٥	C	A	V	U	U	В	K	Ú	В	
5.	15.	25.	35.	45.	55.	65.	75	85.	95.	
U	В	U	۵	8	8	⋖	v	U	٥	
4	14.	24.	7.	4	7.	8	74.	%	8,	
8	U	Δ	8	K	۵	Δ	⋖	٥	0	
w	13.	23.	33.	43.	53.	63	73.	83.	93.	
A	8	۵	U	Δ	Δ	v	U	U	Δ	1
2	12.	22.	32.	42.	52.	62	72.	85.	92.	
A	æ	A	⋖	٥	8	A	U	B	8	
	Ξ.	21.	31.	41.	51.	61.	7	<u>8</u>	91.	
	2 A 3 B 4 C 5 D 6 B 7 B 8 C 9 D	2. A 3. B 4. C 5. D 6. B 7. B 8. C 9. D 12. B 13. C 14. B 15. C 16. B 17. C 18. A 19. B	2 A 3 B 4 C 5 D 6 B 7 B 8 C 9 D 10 12 B 13 C 14 B 15 C 16 B 17 C 18 A 19 B 20 22 D 23 D 24 C 25 A 26 A 27 B 28 C 29 C 30	2 A 3 B 4 C 5 D 6 B 7 B 8 C 9 D 10 12 B 13 C 14 B 15 C 16 B 17 C 18 A 19 B 20 22 D 23 D 24 C 25 A 26 A 27 B 28 C 29 C 30 32 C 33 B 34 D 35 C 36 D 37 A 38 A 39 D 40	A 2 A 3 B 4 C 5 D 6 B 7 B 8 C 9 D 10 B 12 B 13 C 14 B 15 C 16 B 17 C 18 A 19 B 20 A 22 D 23 D 24 C 25 A 27 B 28 C 29 C 30 A 32 C 33 B 34 D 35 C 36 D 37 A 38 A 39 D 40 D 42 D 43 A 44 B 45 C 47 C 48 A 49 B 50	A 2. A 3. B 4. C 5. D 6. B 7. B 8. C 9. D 10. B 12. B 13. C 14. B 15. C 16. B 17. C 18. A 19. B 20. A 22. D 23. D 24. C 25. A 27. B 28. C 29. C 30. A 32. C 33. B 34. D 35. C 36. D 37. A 38. A 39. D 40. B 42. D 43. A 44. B 45. C 47. C 48. A 59. C 60. B 52. D 53. C 56. C 57. B 58. A <	A 2. A 3. B 4. C 5. D 6. B 7. B 8. C 9. D 10. B 12. B 13. C 14. B 15. C 16. B 17. C 18. A 19. B 20. A 22. D 23. D 24. C 25. A 27. B 28. C 29. C 30. A 32. C 33. B 34. D 35. C 47. C 48. A 49. B 50. B 52. D 53. D 54. B 55. C 57. B 58. A 49. B 50. A 52. D 53. D 54. B 55. C 57. B 58. C <	A 2. A 3. B 4. C 5. D 6. B 7. B 8. C 9. D 10. B 12. B 13. C 14. B 15. C 16. B 17. C 18. A 19. B 20. A 22. D 23. D 24. C 25. A 26. A 27. B 28. C 29. C 30. A 32. C 33. B 34. D 35. C 36. D 37. A 38. A 39. D 40. B 32. C 36. C 47. C 48. A 49. B 50. B 52. D 54. B 55. C 57. C 68. B 69. C <	A 2 A 3 B 4 C 5 D 6 B 7 B 8 C 9 D 10 B 12 B 13 C 14 B 15 C 16 B 17 C 18 A 19 B 20 A 22 D 23 D 24 C 25 A 27 B 28 C 29 C 30 A 22 D 23 D 24 C 25 A 27 B 28 C 30 A 40 A A 40 A A A A A A A A A A A A A A A	A 2. A 3. B 4. C 5. D 6. B 7. B 8. C 9. D 10. B 12. B 13. C 14. B 15. C 16. B 17. C 18. A 19. B 20. A 22. D 23. D 24. C 25. A 27. B 28. C 29. C 30. D A 32. C 33. B 34. D 35. C 36. D 37. A 38. A 49. B B 52. D 45. C 46. C 47. C 48. B 59. C 50. C B 52. D 53. D 54. B 55. C 57. C 68. <th< td=""></th<>