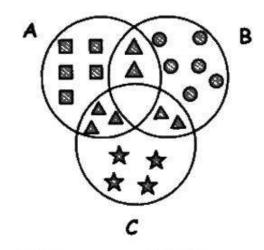
National Level Science Talent Search Examination - 2012

Mathematics Class: IV

- Which is the same as 35 tens?
 - (A) 3 tens and 50 ones
- (B) 30 tens and 5 ones
- (C) 3 hundreds and 5 ones (D) 3 hundreds and 50 ones.
- Find the Roman numeral equal to '29'.
 - IXXX(A)
- (B) XXIV
- (C) XXIX
- (D) VXIX
- How many figures are there in the circle B?



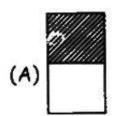
(A) 6

(B)8

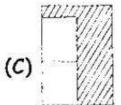
(C) 10

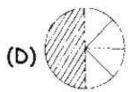
(D) 22

Find the odd one out.



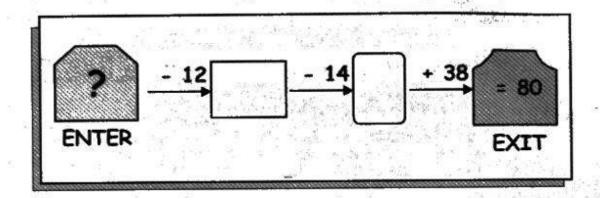
(B)





- "700 was added 35 times". The total is:
 - (A) 35700
- (B) 35000
- (C) 25400
- (D) 24500

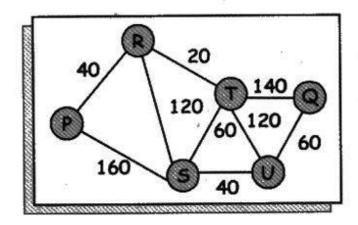
6 Nikhil puts a number into the "ENTER" box of



The "EXIT" number was 80. What number did Nikhil put into the "ENTER" box?

- (A)68
- (B) 72
- (C)76
- (D) 92
- Which number has the greatest place value of '7'?
 - (A)56720

- (B) 27435 (C) 99997 (D) 86274
- The picture below shows bus routes and ticket prices between 6 places. What is the least amount of money Ankita has to pay for the tickets to go from place P to place Q?

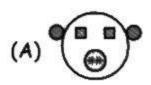


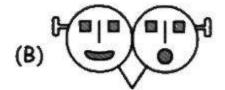
- (A) 160
- (B) 200
- (C) 240
- (D) 220
- Satya can read 120 pages in 6 hours. How many pages does he read in half an hour?
 - (A)5
- (B) 10
- (C) 20
- (D) 30

2000		542	10.75	E 122 011			60	
10	Which	of	the	following	is	a	leap	year?

- (A) 2003
- (B) 2005
- (C) 2008
- (D) 2010











12 How many basic numerals are there in Roman numeration system?

- (A)7
- (B) 8
- (C)9
- (D) 10

18 What is the least common multiple of 3, 6 and 10?

- (A) 120
- (B)60
- (C) 30
- (D) 1

Each expression shown below has the same value.

Which of the following has the same value as each of the three expressions above?

- (A) 72 + 6 (B) 72 + 3 (C) 144 + 3 (D) 144 + 9

15 Which of these simple closed figures is also a polygon?









- 16 152 chocolates were equally distributed amongst 16 children in such a way that each child gets 9 chocolates. How many chocolates were left over?
 - (A) 8
- (B) 12
- (C) 14
- (D) 144
- 17 Which of the following statements is true?
 - (A) $\frac{7}{8}$ and $\frac{8}{9}$ are like fractions.
 - (B) $\frac{3}{4}$ and $\frac{7}{4}$ are unlike fractions.
 - (C) $\frac{1}{2}$ and $\frac{2}{4}$ are equivalent fractions.
 - (D) $\frac{4}{3}$ and $\frac{6}{5}$ are the examples of proper fractions.
- 18 By how much would the value of 8540 change if the digit "8" is replaced with the digit "3"?
 - (A)3
- (B)5
- (C) 5000 °
- (D) 8000
- The numbers below follow a pattern. Which number comes next in the given pattern?

- (A) 14
- (B) 15
- (C) 16
- (D) 18
- 20 Which number in place of question mark below, makes the number sentence correct?

- (A) 20
- (B) 21
- (C)24
- (D) 26

21	How much i	s (145 x 140)	- (144 × 14	Ó)?	
Personal de la companya de la compan	(A) 145	(B) 144	(C) 140	(D) 120	liti ISI
22	Which numb	er is the sma	llest factor of	f every number?	
	(A) 0 (C) 2	Marin San San	(B) 1 (D) The num	nber itself	
23	Which is a note?	better unit t	o measure th	e length of a ₹ 50	0
76. 7	(A) mm	(B) cm	(C) m	(D) km	
24	Who am I?				
		"I am a 4 - di All my digits o The sum of all		32".	
	Sheer.	CONTRACTOR	account man in more on	Characteristics and Company of the C	
	(A) 7777	(B) 9879	(C) 8888	(D) 9999	
25	Vihang divid	led a certain n	umber by 10 i result. What i	nstead of multiplying	
3	Vihang divid it by 10 and been if he I (A) 50000	led a certain n I got 500 as a had not made	umber by 10 i result. What i that mistake? (C) 500	nstead of multiplyin would the result hav	
3	Vihang divid it by 10 and been if he I (A) 50000	led a certain n l got 500 as a had not made (B) 5000	umber by 10 i result. What i that mistake? (C) 500	nstead of multiplyin would the result hav	
26	Vihang divid it by 10 and been if he i (A) 50000 How many t (A) 1	led a certain n l got 500 as a had not made (B) 5000 housands make (B) 10	umber by 10 i result. What i that mistake? (C) 500 e a lakh? (C) 100	nstead of multiplying would the result have (D) 50	

28	The least	common multiple	of 100 and	1000 is:
	(A) 10	(B) 100	(C) 1000	(D) 10000

29 The diagram shows a new bottle of liquid detergent.



Deepa uses $0.2\ l$ of the detergent. Find the volume, in ml, of detergent left in the bottle.

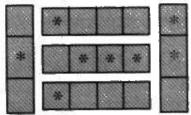
(A) 1000

(B) 100

(C) 10

(D)1

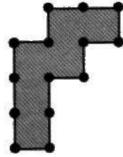
Given below is the seating arrangement for students in a classroom with each box showing one chair. The chairs which have a star mark are occupied.



Which of these is true?

- (A) More chairs are occupied than empty chairs.
- (B) Nine chairs are unoccupied.
- (C) Every student has a partner sitting next to him or her.
- (D) The number of occupied chairs is less than 10.

How many metres of wire fencing is needed if each post is 6 m apart?



(A) 66

(B)72

(C)78

(D) 84

- What is the smallest 6 digit number that can be formed using the digits 2, 0, 4, 5, 7, 1?
 - (A) 021457

(B) 102457

(C) 210457

- (D) 120547
- The number of minutes in one complete day is:
 - (A) 3600

(B) 1200

(C) 2400

- (D) 1440
- The sum of two like fractions is $\frac{8}{9}$ and their difference is
 - $\frac{2}{9}$. What are the two fractions?
 - (A) $\frac{6}{9}$, $\frac{2}{9}$ (B) $\frac{5}{9}$, $\frac{3}{9}$ (C) $\frac{4}{9}$, $\frac{4}{9}$ (D) $\frac{8}{9}$, $\frac{2}{9}$

835 Observe the following sums.

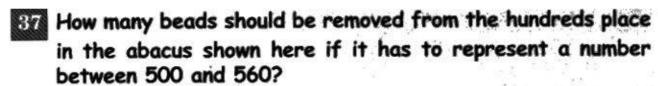
$$1 \times 1 = 1$$

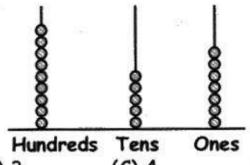
$$2 \times 2 = 4$$

$$3 \times 3 = 9$$

$$1 + 3 + 5 + 7 = 4 \times 4 = 16$$

- (A) 121
- (B) 100
- (C) 81
- (D) 64
- What is the quotient when the greatest 4 digit number is divided by the smallest 3 - digit number?
 - (A)1
- (B) 9
- (C)99
- (D) 999





(A) 2

(B)3

(C)4

(D) 5

Write the expanded form of 52010.

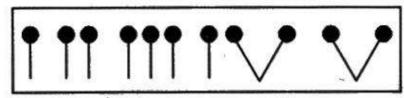
Ajit arranged some marbles in the manner shown below.

	0	ם
	- C	ם
0_0		00
	۵,	۵
STATE OF THE PARTY OF	183	1.34 40

Which of the following division facts is best represented by this grouping of marbles? (All the marbles must be considered)

- (A) 21 ÷ 5 gives quotient 4 and remainder 1
- (B) 21 ÷ 7 gives quotient 3
- (C) 20 ÷ 5 gives quotient 4
- (D) 5 ÷ 4 gives quotient 1 and remainder 1

10 A teacher was arranging the Roman numerals with match sticks as shown below.



Name the number between I and X which requires the maximum number of match sticks?

(A)6

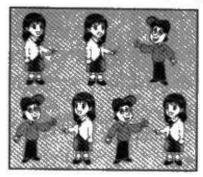
(B) 7

(C) 8

(D) 9

- Write the smallest prime number greater than 50.
 - (A) 53

- (B) 50 (C) 47 (D) 57
- What fraction of the children in the following group are girls?



- (A) $\frac{3}{4}$ (B) $\frac{4}{3}$ (C) $\frac{4}{7}$
- (D) $\frac{3}{7}$
- Pravalika is celebrating Diwali with her friends. She knew that fire crackers can be burst only till 10 p.m. The night time is shown by the clock below.



For how much more time can Pravalika and her friends enjoy bursting crackers?

- (A) 20 minutes (B) 40 minutes (C) 45 minutes (D) 56 minutes
- In how many ways can ₹ 6 be obtained from the following coins?











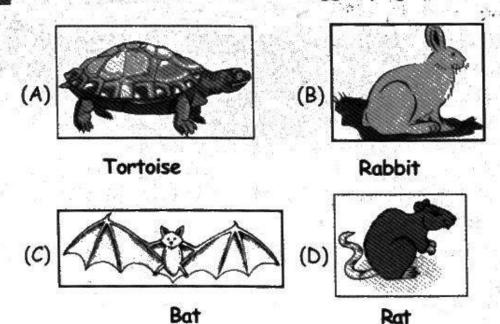




- (A)3
- (B)4
- (C)5
- (D) 6
- Which fraction below can be represented as $7\frac{2}{3}$?
 - (A) $\frac{72}{3}$ (B) $\frac{23}{3}$ (C) $\frac{23}{3}$

46 Which o	f the following	plants respond	is to touch ?
(A) Mang	o (B) Mangrov	ve (C) Mimosa	(D) Marigold
	the following sec n the respirator		nts the passage of
(A) Nose	ightarrow Lungs $ ightarrow$ Wi	ndpipe o Blood	I
(B) Nose	ightarrow Windpipe $ ightarrow$	Lungs $ ightarrow$ Blood	
(C) Nose	ightarrow Blood $ ightarrow$ Lun	gs $ ightarrow$ Windpipe	2 00
(D) Nose	ightarrow Blood $ ightarrow$ Wi	ndpipe o Lung	3
48 Which o	Marine Marine and a 1 department of the control of	ood substances	is a rich source of
(A) Whee	at (B) Pea	(C) Pulses	(D) Meat
49 In which	of the following	boxes we can	place tomato?
P	Q	R	5
Ric		Carrot	Potato Ginger
Wh	eat Pumpkin	Radish	
(A) P	(B) Q	(C) R	(D) S
50 Which o	of the following o	an increase in	volume due to air?
T.	3 7		
		S 8	
(A)	(B)	(C)	(D)
and the second	MUT THE SELECT STA	a started	

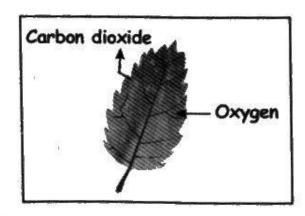
Which of the following is an egg laying animal?



52 Which of the following conversions is correct?

- (A) Water heat Steam heat Ice
- (B) Steam cool Water cool Ice
- (C) Water cool Ice cool Steam
- (D) Steam heat Ice cool Water

58 Observe the figure given below.



The given figure represents which of the following processes?

(A) Respiration

- (B) Photosynthesis
- (C) Transportation
- (D) Nutrition

- Which of the following statements is true about the water droplets that can be seen on grass in winter mornings?
 - (A) The secretion of water from the leaves.
 - (B) Due to the absorption of rain droplets on leaves that take place every night.
 - (C) Condensation of water particles in the air.
 - (D) Excessive absorption of water from the soil.
- 35 Which of the following soil particles is most helpful for the plant growth?
 - (A) Humus
- (B) Rocks (C) Sand
- (D) Clay
- Match the following animals in Column-I with their adaptations in Column-II.

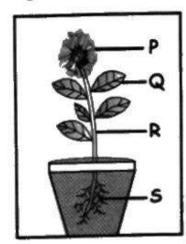
	Column-I		Column-II
a	Crane	i	Grow thick fur
ь	Bear	ii	Migrate to warm areas
c	Frog	iii	Hibernation

(A) a-ii, b-i, c-iii

(B) a-iii, b-i, c-ii

(C) a-i, b-ii, c-iii

- (D) a-iii, b-ii, c-i
- Which of the following is the main function of the part labelled 'R' in the figure given below?



- (A) Provide support
- (B) Synthesise food
- (C) Produce seeds
- (D) Absorb water

The legs of a frog are webbed. This helps the frog to



	Carrie	
	(A) catch flies easily.(C) stick to walls.	(B) fly to greater heights.(D) swim in water.
59	How does light coloured summer?	clothes keep our bodies cool in
	(A) By absorbing heat pres	ent in the air.
	(B) By preventing body hear	t to escape.
	(C) By reflecting sunlight.	
	(D) By the absorption of su	nlight.
60	Washed clothes that are the following days?	hanged out dry fastest on which of
	(A) Humid day	(B) Cloudy day
	(C) Windy and cloudy day	6 15
61	Which of these substance shape ?	es has definite volume but no fixed
	(A) Milk	(B) Carbon dioxide
	(C) Water vapour	(D) Book
62	Which of these is a non-	-living thing ?
	(A) Seed (B) Fish	
63	Which of the following is	s called "The kitchen of a plant" 2

64 Which of the following forces stops a football rolling itself on the ground?

(B) Stem (C) Leaf

(A) Gravitational force

(B) Mechanical force

(D) Fruit

(C) Muscular force

(A) Root

59

60

(D) Frictional force

Which of the following animals should come in the empty box given below?

Herbivore	Carnivore	Omnivore
Cow	Tiger	?

T.	terbivore	Carnivore	Omnivore	
[7	Cow	Tiger	?	
(A) Lizard		(B) S	nake	
(C) Monkey		(D) B	ear	
66 In which of	4	wing process	ses does wa	ter change into
(A) Condens	ation	(B) S	edimentation	ı
(C) Evapora	tion	(D) M	Nelting	
67 Which of building?	the follow	ing compone	nts of food	l helps in body
(A) Carbohy	drates	(B) P	roteins	
(C) Iron		(D) B	lutter	
68 Which of stores food			of human a	limentary cana
(A) Mouth		(B) F	Food pipe	
(C) Stomac	h	(D)	5mall intestir	ne
69 Which of scooters,			of energy is	s used to drive
(A) Electri			Wind energy	
(C) Chemic	al energy	(D)	_ight energy	S
70 Which of	the follow	ing causes s	easons?	
(A) Rotatio	on of the M	oon (B)	Revolution of	the Earth
(C) Rotatio			Revolution of	f the Sun
71 Which of food ?	the follow	ving kinds o	f teeth is u	iseful in tearin

(B) Canines

(D) Molars

(A) Incisors

(C) Premolars

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- Banyan tree develops prop roots. This is an adaptation to get:
 - (A) moisture

(B) air

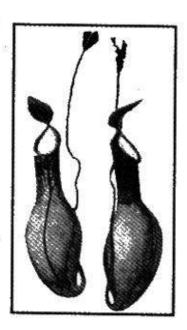
(C) sunlight

- (D) support
- Which of the following organs is NOT a part of digestive of system?
 - (A) Liver

(B) Pancreas

(C) Oesophagus

- (D) Kidneys
- The figure given below is a part of pitcher plant. It closes its lid when insects sit on it. This shows that the plant is a

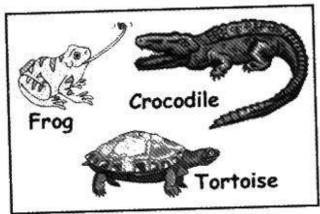


- (A) herbivorous plant
- (B) insectivorous plant
- (C) saprophytic plant
- (D) Both (A) and (B)
- 76 How does teeth help in digestion?
 - (A) They produce digestive juices.
 - (B) They control the functioning of digestive organs.
 - (C) They digest the food.
 - (D) They tear, cut, crush or grind food into small pieces.
- Which of the following types of soils is good for vegetables?
 - (A) Loam
- (B) Sandy
- (C) Clay
- (D) Gravel

What causes a tooth to become decayed?

- (A) Eating too many protein foods.
- (B) Brushing teeth regularly.
- (C) Bacteria in the mouth.
- (D) Eating only fruits and vegetables.
- Which of the following organisms and their body covering are wrongly matched?
 - (A) Rabbit Hair

- (B) Tortoise Slimy skin
- (C) Polar bear Fur
- (D) Frog Moist skin
- 79 How are the animals given below similar?



- (A) They give birth to live youngones.
- (B) They are omnivores.
- (C) They can live both on land and in water.
- (D) They are herbivores.
- Which of the following components of air is essential for all living organisms?
 - (A) Oxygen

- (B) Water vapour
- (C) Carbon dioxide
- (D) Nitrogen
- Which of the following animals does not pass through the four stages of life cycle?
 - (A) House-fly

(B) Mosquito

(C) Butterfly

(D) Grasshopper

Which of the following cannot make food? (A) Croton plant (B) Money plant (C) Cactus (D) Mould Which of the following plants have stomata on their upper surface? (A) Opuntia (B) Lotus (C) Hydrilla (D) Tapegrass Which of the following animals undergo hibernation? (A) Camels (B) Whales (C) Lizards (D) Dolphins Which of the following aerial animals is not a bird? (A) Parrot (B) Koel (C) Hawk (D) Bat 86 Which of the following terms also mean flesh eating animals? (A) Carnivores (B) Herbivores (C) Omnivores (D) Decomposers Which part of sugarcane contains food? (A) Root (B) Stem (C) Leaf (D) Fruit Which of the following colours is formed when iodine solution is added to the starch solution? (A) Blueblack (B) Red (C) Yellow (D) Green Match the following animals in Column-I with their youngones in Column-II. Column-I Column-II Frog i a Maggot Cockroach ii Caterpillar Butterfly C iii Tadpole d Housefly iv Nymph (A) a-ii, b-iv, c-iii, d-i (B) a-iv, b-iii, c-ii, d-i (C) a-i, b-ii, c-iii, d-iv (D) a-iii, b-iv, c-ii, d-i In which of the following processes do animals shed their old skin? (A) Resting phase (B) Moulting (C) Growth (D) Reproduction

91	Which cartoo	n character go	ains strength l	by eating spinach?
20000000	(A) Chota Bhee	m	(B) Pink Panth	er
	(C) Popeye	7/14	(D) Tom	The state of the s
92	Which option is	s used to undo t	the work in a M	S-Word document?
Committee	(A) Ctrl + Z	(B) Ctrl + U	(C) Ctrl + V	(D) Ctrl + B
93	Which country	y is in the sou	ıth of India ?	
6333333	(A) Pakistan	(B) Sri Lanka	(C) Nepal	(D) Bangladesh
94	How many son	s did king Das	sharatha have	?
Rancocco	(A) 3	(B) 2	(C) 6	(D) 4
95	Which of the	se is a star?	. 8	
ESSECTION	(A) The Moon	(B) The Sun	(C) The Earth	(D) Mars
96	Who got the	Taj Mahal con	structed?	
CONTRACTOR	(A) Shahjahan		(B) Akbar	
	(C) Sri Krishno	1 Devaraya	(D) Birbal	
97	How many spol	kes are there	in the wheel of	our National Flag?
ELECTRICAL PROPERTY.	(A) 15	(B) 12	(C) 24	(D) 20
98	Who wrote th	e book, "The	panchatantra'	?
COCCOLORS	(A) Kalidasa		(B) Pandit Visi	nnu Sharma
s ^(k− l)	(C) Kautilya		(D) Rabindran	ath Tagore
99	What is used	for safety wl	nile driving a d	car?
	(A) Hand seat	7.0	(B) Seat belt	242
	(C) Push back s	seats	(D) Slow drivi	ng
100	Where did th	ne classical da	nce form Kuch	nipudi originate?
	(A) Odisha	¥ 5	(B) Karnataka	
	(C) Kerala		(D) Andhra Pro	adesh

	•		- Key	reri	VSTSE	-201	12			•	•	
1. D	2 C	3. C	4. C	5. D	6. A	7.	В	8. E	В	9. B	10.	U
11.B	12. A	-	14. B	15. C	16. A	17.	U	18.		19. B	20.	D
21.C	22. B	23. B	24. C	25. A	26. C	27.	٥	28. (()	29. A	30.	D
31.D	32. B	33. D	34. B	35. B	36. C	37.	C	38. /	A	39. A	40.	C
41.A	42. C	43. B	44. B	45. C	46. C	47.	B ,	48. /	A 4	49. B	50.	D
51.A	52. B	53. A	54. C	55. A	56. A	57.	V	58. L	D	59. C	.09	D
61.A	62. C	63, C	64. D	65. D	99. C	67.	B (68. (C	69. C	70.	В
71.B	72. D	73. D	74. B	75. D	76. A	77.	. C	78. B	-	79. C	80.	A
81.D	82. D	83. B	84. C	85. D	86. A	87.	В	88. ₽	A 8	89. D	90.	В
91.C	92. A	93. B	94. D	95. B	96. A	97.	C	98. B	_	M.exB	www.examrace.com	D