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[4th Grade Test].

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Illinois State Board of Education, Springfield.

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Items

IDENTIFIERS

*Illinois Inventory of Educational Progress

.ABSTRACT

The 4th Grade Test (1984) of the Illinois Inventory of Educational Progress includes 18 reading items, 27 geometry items, 31 science items, a 27-item student questionnaire regarding science opinions, and 40 mathematics items. The test booklet only is included here. (PN)

THE ILLINOIS INVENTORY OF EDUCATIONAL PROGRESS 1984 GRADE 4

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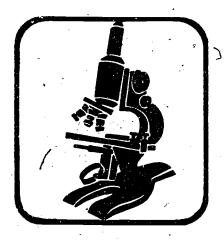
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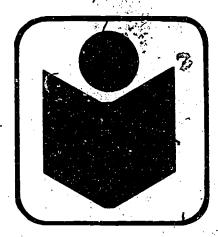
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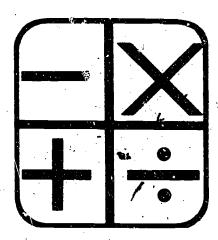
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TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)."

Walter W. Naumer, Jr., Chairman Illinois State Board of Education Donald G. Gill State Superintendent of Education









4th GRADE TEST

ILLINOIS INVENTORY OF EDUCATIONAL PROGRESS

DIRECTIONS FOR FILLING OUT THE ANSWER SHEET

- *USE A #2 PENCIL TO MARK YOUR ANSWERS.
- *MARK ALL OF YOUR ANSWERS ON THE ANSWER SHEET.
- *DO NOT WRITE IN THE TEST BOOKLET.
- *MATCH THE QUESTION NUMBER TO THE NUMBER ON THE ANSWER SHEET.
- *MAKE YOUR MARKS WITHIN THE BUBBLE FOR THE ANSWER YOU SELECT.
- *MAKE YOUR MARKS FIRMLY, FILL THE BUBBLE COMPLETELY.
- *THERE ARE MORE PLACES FOR ANSWERS THAN THERE ARE QUESTIONS IN THE BOOKLET BE SURE TO MARK YOUR ANSWER SHEET IN THE PROPER LOCATION.
- *IF YOU WISH TO CHANGE AN ANSWER, COMPLETELY ERASE THE MARK YOU WISH TO CHANGE.
- *FOLLOW THE DIRECTIONS ON THE SEPARATE SHEET OF INSTRUCTIONS TO FILL IN THE NAME AND STUDENT CODE ON THE ANSWER SHEET.

READING TEST

This section contains reading items. For each item, read the question and the answer choices. Then, darken the bubble of your choice on There are 18 reading items., You will have 30 minutes. the answer sheet. READY, BEGIN.

WATER ENVIRONMENTS

You may be familiar with the green scum floating atop a pond or swamp. You may also be familiar with water lilies and cattails. Perhaps you have gone fishing in a lake on river and caught a fish. All of

- these living things are examples of
- life in a freshwater environment. 8 -
- 9 They are classified as freshwater
- forms.
- About 7/10 of the earth's surface וו
- is covered by water of the oceans.
- Some parts of the floors of these
- oceans might be compared to living 14
- gardens. Plants such as rockweeds 115
- are attached to the mud, sand, and 16
- rocks of the ocean floor near 17
- shore.
- The waters of the sea contain many 19
- forms of microscopic life. One 20
- example of these forms are tiny 21
- plants called diatoms. . Diatoms are 22
- a form of algae. Plants such as 23
- the diatoms, either directly or in-. 24
- directly, form the basic food of
- all animals that live in the sea.
- 26
- Very small creatures eat diatoms. 27
- Larger fish eat the fish that ate 28
- the diatoms. Still larger fish eat 29
- these fish. The pattern of larger 30
- 31 fish eating smaller fish is carried
- out over and over. A pattern such 32
- as this is known as a food chain. 33
- All of the members of this food
- chain live in salt water. The
- 35 living things found in a saltwater 36
- environment are classified as 37
- marine or saltwater forms of life.

DIRECTIONS: Read the questions and ALL of the choices. Then choose the BEST answer to each question.

. €

- Each of the following is an example of life found in fresh water EXCEPT
 - A) green scum.
 - water lilies.
 - C) diatoms.
 - D) cattails.
- Another term which means almost the same as saltwater forms of life is
 - A) freshwater life.
 - B) marine life.
 - food chain. C)
 - algae. D)
 - Microscopic life is life
 - A) that is found only in the oceans.
 - that includes fish and other B) sea life.
 - which cannot be seen with the naked eye.
 - that lives on the ocean floor. D)
 - The lowest level of the food chain described in the reading is
 - A) small creatures.
 - -B) forms of algae.
 - C) small fish.
 - larger fish. D)
 - The word environment as it is used in lines 4 and 18, means
 - life and its surroundings in water.
 - animal life everywhere. B)
 - plant life on the ocean floor. C)
 - the kinds of creatures that D) live in water.

TURES WITHIN THE EARTH 7i

- ever been in a deep cave? Have ,
- Do you . member what the tempera-
- ture was like? In the summer it
- may have been lower than the out-
- side temperature. In winter it may have been higher. The temperature. 5
- in a sep cave is almost the same
- in both winter and summer.
- Scientists measure temperatures
- within the crust of the earth. For
- example, they measure the tempera-. 11
- ture at a depth of fifty feet. 12
- Then after drilling a mile into the 13
- earth, they measure it again.
- There, the temperature is about 15
- 80° Fahrenheit higher than it was
- 17
- at the fifty-foot depth. Should they drill another mile, they would 18
- find the temperature had increased 19
- 20 another 80°. Scientists find
- that the increase of about 80° 21
- per mile continues for each addi-
- 22
- tional mile of depth they have
- checked. In the deepest gold mine, 24
- the temperature two miles down is 25
- 150° Fahrenheit. The temperature 26
- in the deepest well is more than 27
- 400° Fahrenheit. This increase 28
- is about 10 Fahrenheit for every 29
- sixty feet.
- 31 If the temperature change of 80°
- for every mile of depth continued, . 32
- the earth's interior would be very
- hot. At a depth of thirty miles,
- the temperature would be 2,400°
- Fahrenheit. However, scientists. 36
- believe that the mantle's tempera-37 ture does not get any greater than w
- 38
- 39 4,000 Fahrenheit. They also be-
- lieve that the temperature of the
- core is not greater than 10,000°. 41
- Fahrenheit.

- In the sentence, "There, the 6. temperature is about 800 Fahrenheit..." (Lines 15-16), the tiny circle (°) next to the zero in 80 means
 - · A) Fahrenheit.
 - B) feet.
 - C) zeros.
 - D) degrees.
- Study the way in which the word drill is used in line 18. Which sentence below uses this word with exactly the same meaning as it is used in line 18?
 - A) We completed the addition drill in our math books.
 - The soldiers must drill every B) morning and evening.
 - C) The engineers had to drill for
 - Jack misplaced the drill bit D) and could not finish the job.
- 8. As scientists drill more deeply into the earth, they find that
 - A) the temperature increases.
 - the temperature decreases. B)
 - C) the temperature remains the
 - D) the temperature moves up and
- 9. Probably, the thinnest layer of our planet is the
 - A) crust.
 - B). core.
 - C) ocean.
 - D) mantle.
- 10. Which offers the BEST proof that the earth's interior is extremely hot?
 - A) seasons
 - B) volcanoes
 - C) polar caps
 - D). solar energy

CONTINUE TO THE NEXT. PAGE.

"The Courage of Sarah Noble"

- The Indian children did come,
 again and again. Sarah soon lost
 all fear of them, and they of her.
 At first the children all looked
- 5 alike to Sarah, then she began to know each one. Two of them she
- 7 liked better than all the others.
- 8 They were brother and sister, a 9 tall serious boy and a little girl
- 10 with lively black eyes.
 - 11 Sometimes Sarah tried to read to
 - 12 them, but after the first time they
 - 13 did not listen. So Sarah tried
 - 14 teaching them words. Pointing to
 15 the table, stool, and fire, she would 61
 - 16 say the name clearly. Then the
 - 17 Indian children said--or tried to
 - 18 say--the words, shouting with
 - 19 laughter when their tongues could
 - 20 not find a way around the strange
 - 21 sounds.
 - 22 They, in turn, showed her where the
 - 23 wild strawberries grew. So she
 - 24 went out and filled a basket with
 - 25 the berries, which were like, red
 - 26 jewels in the grass. When John
 - 27 Noble came home with a duck herhad
 - 28 shot or a fish caught in the river,
 - 29 he would find ripe berries waiting,
 - 30 too.
 - 31 They traded with the Indians for
 - 32 corn and ground it with the small
 - 33 mortar and pestle that Thomas had >
 - 34 brought in one of the saddle bags.
 - 35 Sarah made corn cakes with it,
 - 36 cooking them in the ashes, and all
 - 37 the time she thought of her
 - 38 mother's good bread, baked in the
 - 39 oven.
 - 40 "I need help to raise the logs for
 - 41 the house," John Noble said.
 - 42 "There is a tall Indian who has
 - 43 said he will help me. I cannot say
 - 44 his name so I will call him Tail
 - 45 John. He speaks a few words of
 - 46 English."

- 47 "Father," Sarah said, "the Indian
- 48 children point to their houses and
- 49 want me to visit them. Should I
- 50 go?"
- John Noble did not answer at once.
- 52. He sat with his head in his hands
- 53 saying not a word. This was his
- 54 daughter, and he had brought her to
- 55 this wild place. Over and over he
- 56 had wondered if he had done right.
- 57 And what, after all, did he know
- 58 about these strange people?
- 59 Sarah waited for her father to
- 60 speak.
- 61 At last he said, "Tall John has two
- 62 children, Sarah. I think they are
- 63 among those who come her. I would
- 64 trust you to go to the house of
- 65 Tall John."
- '66 "Oh!" said Sarah. "It is Tall
- ·67 John's children that I like!"
- 68 So Sarah went often to the house of
- 69 Tall John and his wife. She could
- 70 not say the long, long names of the
- 71 children, so she called the boy
- 72 Small John and the girl Mary, after her
- 73 mother.
- 74 The Indian children called her
- 75 Sarah, for that was a name easy to
- 76 say.
- 77 "Sar--ah, Sar--ah, Sar--ah!" Their
- 78 high, clear voices echoed up and
- 79 down the valley as she played with
- 80 them and learned their games.
- 81 "Sar--ah, Sar--ah, Sar--ah!"
- 11. Why did the Indian children all look alike to Sarah?
 - A) They were wearing masks.
 - B) They were brothers and sisters.
 - C) They were running.
 - D) She did not know them.

- 12. What did the author mean when she wrote that "their tongues could not find a way around the strange sounds" (lines 19-20)?
 - A) They could not pronounce the words.
 - B) They were sick.
 - C) Their months were full of strawberries.
 - D) They bit their tongues.
- 13. How many children did Tall John have?
 - A) one
 - B) two
 - C) three
 - D) four
- 14. Who was John Noble?
 - A) an Indian
 - B) Sarah's father
 - C) Sarah's mother
 - D) Small John's father
- 15. How did Sarah feel about the Indians before she got to know them?
 - A) She liked them.
 - B) She did not like them.
 - C) She was afraid of them.
 - D) She was proud of them.
- 16. What did Sarah do with the corn?
 - A) She made corn syrup.
 - B) She made cakes.
 - C) She made dessert.
 - D) She made bread.
- 17. Where did the mortar and pestle come from?
 - A) Thomas brought them.
 - B) Sarah brought them.
 - C) John Noble brought them.
 - D) Mary brought them.
- 18. Sarah could visit
 - A) Thomas' house.
 - B) the Noble's house.
 - C) Tall John's house.
 - D) all the Indians' houses.

STOP! DO NOT CONTINUE UNTIL YOU ARE TOLD TO DO SO.



-6-

PART 1

SECTION 2

GEOMETRY TEST

<u>DIRECTIONS</u>: This section contains geometry items. For each item, read the question and the answer choices. Then, darken the bubble of your choice on the answer sheet. There are 27 geometry items. You will have 30 minutes. READY, BEGIN.

19. Which figure shows a line segment?

A	•	•——		•	
В	• .	•	··· , -	 •	
, .: C				 •	
).	,		 · .	
· E		•		 	

20. Which figure shows a ray?

਼

A.

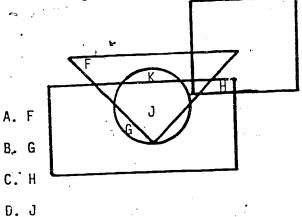
B.

C.

D.

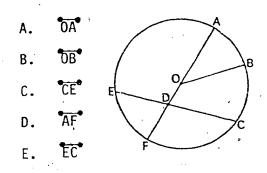
Ε.

21. Which letter in the figure below is inside both the triangle and the rectangle?



22. In the circle below, with center 0, which segment is a diameter?

E. K



- 23. What is the DISTANCE ALL THE WAY AROUND the rectangle below?
 - A. 16 feet

 B. 30 feet

 C. 32 feet

 D. 36 feet

 E. 60 feet

24. Which drawing shows two intersecting lines?

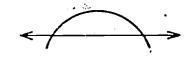
Α.



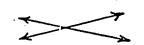
В.



С.



D.

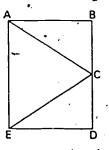


25. On the line below, AB = 6 and AC = 9. Find BC.

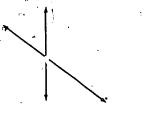


- A. 2
- B. 3
- C. $4^{\frac{1}{2}}$
- D. 15
- E. 18

- 26. In the figure below, ABDE is a rectangle. Which segment is parallel to DE?
 - A. AC
 - B. AE
 - C. CE
 - D. AB -
 - E. BD



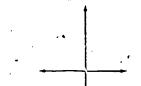
- 27. Which one of the following has a shape MOST like an orange?
 - A. cone
 - B. cube
 - C. cylinder
 - D. sphere
 - E. rectangle
- 28. Which one of the following statements is TRUE?
 - A. All rectangles are squares.
 - B. All squares are rectangles.
 - C. No squares are rectangles.
 - D. No rectangles are squares.
 - E. Some squares are not rectangles.

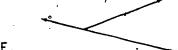


В.

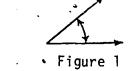


С





30. Which angle below is congruent to the angle in Figure 1?

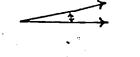




В.



٠C.



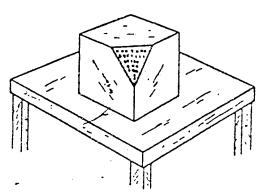
D.



Ε.



31. The figure below shows a block with one corner cut off and shaded. Which of the figures in the answer choices shows how this block would look when viewed from directly above it?



-A:



В.



C.



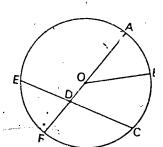
D.



Ε.



- 32. A garden was shaped like a rectangle. The long side was 2 meters. The short side was 15 meters. What was the perimeter
 - A. 30 m
 - B. 35 m
 - C. 40 m
 - D, 55 m
 - E. 70 m
- 33. In the circle below, with cente 0, which line segment represent the radius?
 - -A. CD.
 - B. AF
 - c. EC
 - D. DE
 - E. OB



34. Each side of the square is 14 centimeters long. What is the area of the square?

A. 28 cm²

3. 49 ,cm²



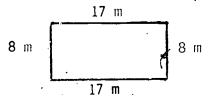


. 56 cm²



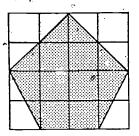
D. 196 cm^2

- 35. The perimeter of a square could be measured in
 - A. square centimeters.
 - B. liters.
 - C. degrees Celsius.
 - D. grams.
 - E. meters.
- 36. There is a dot on one of the corners of the cube below. How many corners does the cube have?
 - A. ,4
 - B. 6
 - °C. 7
 - D. 8
 - E. 16
- 37. Find the AREA of the following rectangle?

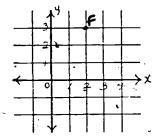


- A. 25 m²
- B. 50 m^2
- C. 68 m²
- D. 136 m^2
- E. 289 m²

38. ESTIMATE the shaded area of the figure in square units.



- A. 18 square units
- B. 10 square units
- C. 12 square units
- D., 14 square units
- 39. Point F is named by:
 - A. (2,3)
 - B. (3,2)
 - (3,3)
 - D. (3,4)
 - E. (4,3)



40. Which one of the figures below has the greatest area? All of the small triangles in the figures are the same size.

Α.



В.



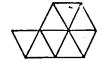
c.



D.

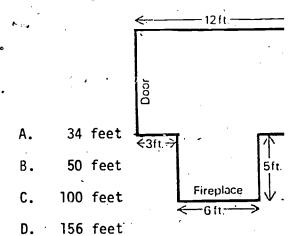


۴ E

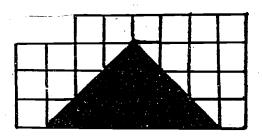


- 41. Area can be measured in
 - A. feet.
 - B. square feet.
 - C. yards.
 - D. cubic yards.
 - E. liters.

42. What is the perimeter of the room in the figure below?



43. Each square in the figure below represents 1 cm². What is the area of the shaded triangle?



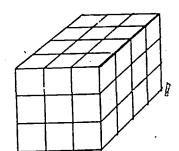
- A. 9 cm²
- B. 10 cm²
- C. 12 cm^2
- D. 15 cm^2
- E. 18 cm²

44° Which one of the following statements is FALSE?

- A. All squares are rectangles.
- B. No rectangles are squares.
- C. Some rectangles are squares.
- D. All rectangles are parallelograms.
- E. Some quadrilaterals are squares.

45. A rectangular solid is cut into cubes as shown. How many cubes are there in all?

- A. ____12
- B. 21
- C. 24
- D. 33
- E. 36





DO NOT CONTINUE UNTIL TOLD TO DO SO.

SCIENCE

This section contains items about science. For each item, read the question and the answer choices. Then, darken the bubble of your choice on the answer sheet. There are 31 science items. You will have 25 minutes. READY, BEGIN.

- 46. Each year the earth moves around
 - a. Mars.
 - b. Venus.
 - c. the sun.
 - d. the moon.
- 47. Sometimes seeds stick to animals and are carried to new places where they will later grow. Which of these seeds would most likely be spread this way?





b. Bean pod

c. Acorn

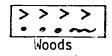
d. Cocklebu

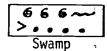
- a. Maple seed
- b. Bean pod \
- c. Acorn
- d. Cocklebur
- 48. Which shape best represents the shape of the earth?
 - a. Cube
 - b. Pyramid
 - c. Cone
 - d. Sphere



49.	A11	of	the	following	are	needed	for	a	fish	to	l <i>i</i> ve	in
	an a	aqua	ariun	n EXCEPT							/	

- food.
- b. sand.
- С. water.
- d. oxygen.
- 50. Some children went on a nature walk and visited three different places. They made a chart using symbols for animals they saw. Their charts show that they saw:



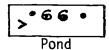




6 snail

→ snake

> bird

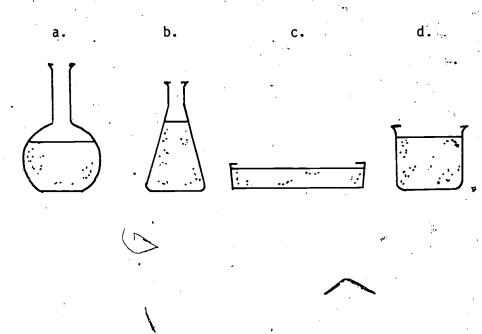


- a. more birds than any other animal.
- b. more insects than any other animal.
- more snakes than snails. more snails than birds.





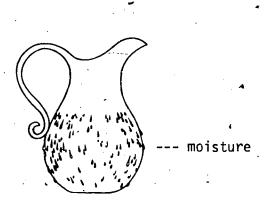
51. The same amount of water is poured into each of the containers shown below, and they are left uncovered in a warm room. Afte a day, which container will have the LEAST amount of water left in it?



- +52. How much sugar water would you get if you mixed 100 grams of sugar with 100 grams of water?
 - a. 100 grams
 - b. About 150 grams
 - c. 200 grams
 - d. A little more than 200 grams



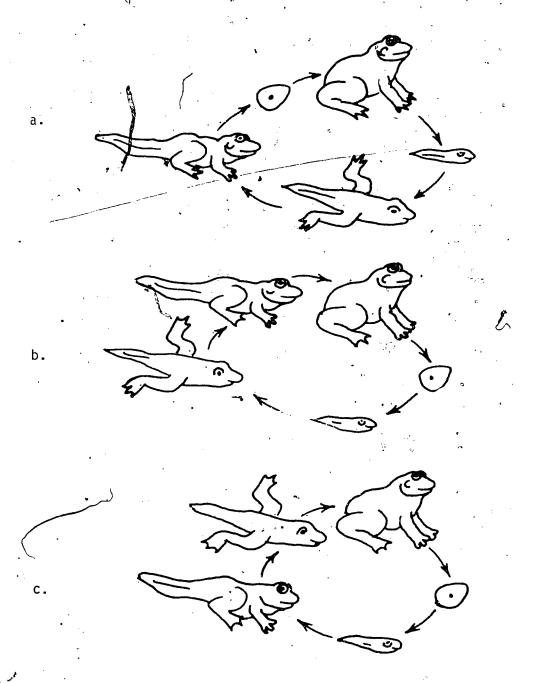
Look at the drawing of a metal pitcher that has been sitting on a table for 20 minutes. Using ONLY the evidence in the drawing, answer the two questions.



- 53. The pitcher is full.
 - a. Probably true
 - b. Probably false
 - c. Cannot tell from the drawing.
- 54. There is something cold inside the pitcher.
 - a. Probably true
 - b. Probably false
 - c. Cannot tell from the drawing.

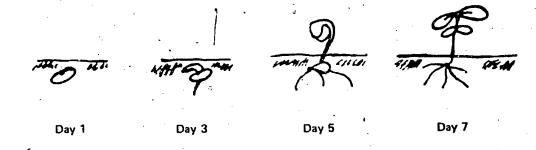


Look carefully at the following picture stories of the life of a frog. Which picture story is CORRECT?





- 56. The fish, dog, and bird are alike in many ways. One way is that they all have
 - a.\ legs.
 - b. hair.
 - c. lungs.
 - d. backbones.
- 57. Below are pictures of bean seedlings beginning to grow. Observe the pictures. Between which days did the young plant break through the top of the soil.



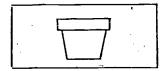
- a. Between days 1 and 3
- b. Between days 1 and 2
- c. Between days 3 and 5
- d. Between days 5 and 7
- 58. Most of the earth's surface is
 - a. cities and towns.
 - b. farm land.
 - c. solid rock.
 - d. water.



Tom wanted to find out whether plants can grow better in the dark or in the light. He put a pot with 6 radish seeds in a dark room and a pot with 6 bean seeds on the window sill.



radish seeds

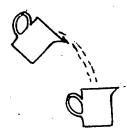


bean seeds

He added the same amount of water to both pots. The bean seeds grew better than the radish seeds, so Tom said his plants grew in the light.

One of the things Tom should have done to be able to say this and be correct is:

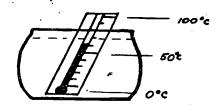
- a. watered both pots more.
- b. watered the radish seeds more.
- c. put the same kind of seeds in both pots.
- d. grown the seeds in water instead of soil.
- 60. What happens when you pour hot water into a cold, empty cup?



- a. The water will get hotter.
- b. The cup will get colder.
- c. The water will get colder.
- d. The cup will stay the same temperature.



- .61. If you want to find out how much height a girl gained in one year, which of the following MUST you know about her?
 - a. Her age
 - b. The type of food she eats
 - c. The height of her mother and father
 - d. Her height at the beginning of the year
- 62. A girl places a thermometer in a jar of water. What was the reading she got?



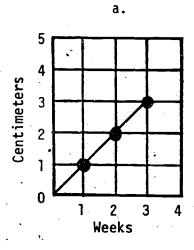
- a. 100 degrees Celsius
- b. 60 degrees Celsius
- c. 40 degrees Celsius
- d. 20 degrees Celsius
- 63. What is the best evidence that dinosaurs once lived?
 - a. Pictures in museums
 - b. Fossils
 - Pictures on walls of caves
 - d. Books written about them

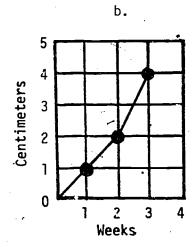


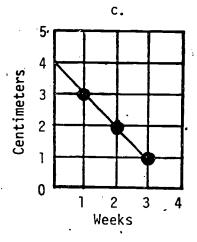
64. A plant grows this way:

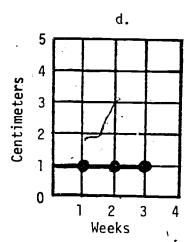
Week	<u> Height</u> (cent	imeters)
1	1 *	*
2	2	•
3 .	. Δ	

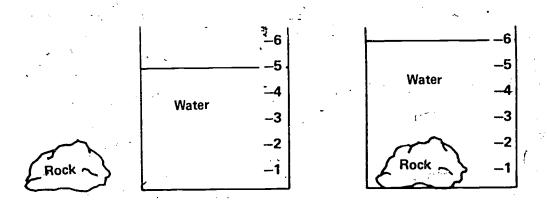
Which graph shows this growth pattern?





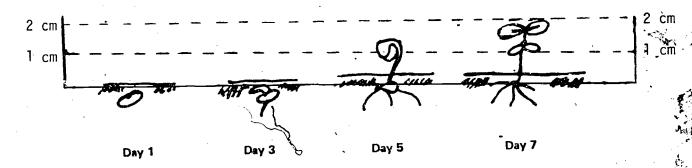






- 65. A rock is put into a pail that has some water in it. Before the rock is put into the pail, the water is at the 5-liter line. After the rock is added, the water rises to the 6-liter line. The space taken up by the rock is
 - a. 1 liter.
 - b: 5 liters.
 - c. 6 liters.
 - d. 11 liters.
- 66. Below are pictures of a bean seedling beginning to grow. Observe the pictures.

Day	Height	(cm)
]	0	
3 5	1.	
7	•	,



What should you record for the height in centimeters for day 7?

- a. 0
- b. 1
- c. 2
- d. 3

- 67. Which one of the following is MOST likely to make a rock break open?
 - a. Dew evaporating on the rock
 - b. Tree leaves decaying on the rock
 - c. Snow melting in a crack on the rock
 - d. Water freezing in a crack on the rock
- 68. A class made a weather chart for one week. Examine the chart and determine which of the statements below is correct.

	Monday	Tuesday	Wednesday	Thursday	Friday
Sun Cloudy Rain Windy	-\\\\-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	0 € 17° C ₩	€ 20° C	22° C ***	₩ -⁄⁄, 21° °

a. The sun was shining every day.

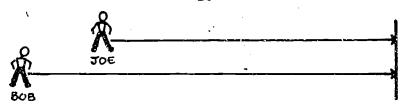
b. It rained two days.

c. It rained every day it was cloudy.

d. It was windy every day of the week.

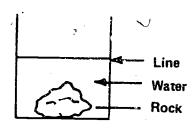
743



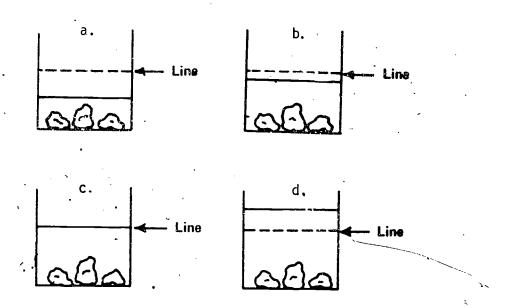


- Two boys raced. Joe is younger than Bob, so he started 69. closer to the finish line. Both started to run when the signal was given. Both got to the finish line at the same time. Which is true?
 - a. Joe ran further than Bob.
 b. Joe ran faster than Bob.

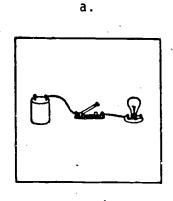
 - c. Bob ran faster than Joe.
 - Bob ran for a longer time.

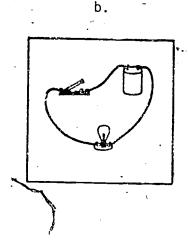


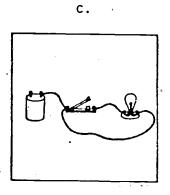
When a rock is put into a pail of water, the water comes ~70. up to the line as the picture above shows. If the rock is broken into three pieces, which of the pictures below shows how high the water is?

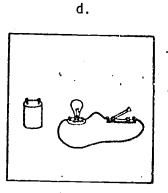


- Four bricks are placed in full sunlight at 10 a.m. The bricks are colored white yellow, blue, and black. Which brick will have stored the most heat energy by 2 p.m.? 71.
 - a. White brick
 - Yellow brick b.
 - c. Blue brickd. Black brick
- 72. Look at the four pictures below. Each shows a battery, a bulb, and a switch. Which bulb will light when the switch is closed?

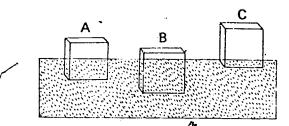








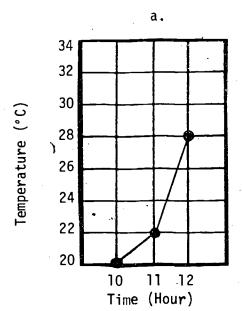
- 73. Why is it cooler to wear light-colored clothes in the summer?
 - a. Light-colored clothes let more air in.
 - b. Light-colored clothes prevent sweating.
 - c. Light-colored clothes are not as heavy as darkcolored clothes.
 - d. Light-colored clothes reflect more sunlight than dark-colored clothes.
- 74. If you had to find who was the <u>fastest</u> <u>runner</u> in your school, which way would be best?
 - a. Boys run against boys and girls run against girls.
 - b. You only run people of the same age.
 - c. Each person runs the same distance and is timed.
 - d. Younger runners should get a 15-step head start.

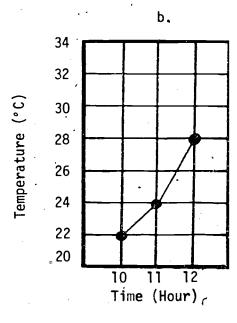


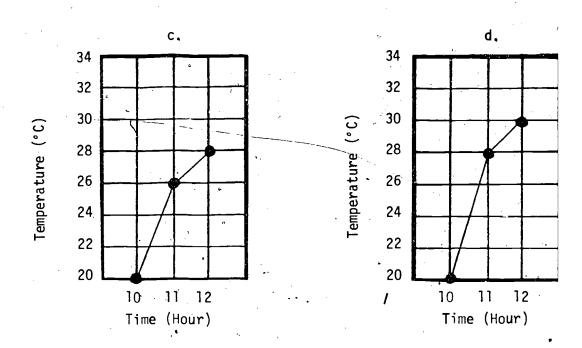
- 75. The three solid objects shown above have the same size and shape. If they float as shown in the diagram, which one weighs the most?
 - a. Object A
 - b. Object B
 - c. Object C
 - d. It is impossible to tell without more information.



76. Some children found that the temperature was 20°C at 10 o'clock, 26°C at 11 o'clock, and 28°C at 12 o'clock. Which of the following is the best record of their findings?







7

Part 2; Section 1 Student Questionnaire

DIRECTIONS: This section contains items about you and your opinions. For each item, read the question and the answer choices. Then, darken the bubble of your choice on the answer sheet. There are 27 student questionnaire items. You will have 15 minutes. READY, BEGIN.

- 77. Are you male or female?
 - (A) Male
 - (B) Female
- 78. How often do you read books about science other than the ones you read for school?
 - (A) Just about every day (B). Once or twice a week

 - (C) Once or twice a month
 - (D) Once or twice a year
- (E) Rarely or never
- .79. Which group do you belong to?
 - (A) White American
 - (B) Black American
 - (C) American of Cuban, Mexican, Puerto Rican or other Latin American ; descent
 - (D) Oriental American
 - (E) Other
- 80. About how many hours a day do you watch TV?
 - (A) More than 4 hours
 - (B) Between 3 and 4 hours
 - (C) Between 2 and 3 hours
 - (D) Between 1 and 2 hours;
 - (E) Less than an hour
- 81. Out of the 31 items in the science test, how many do you think you answered correctly?
 - (A) 0-6
 - (B) 7-12
 - (C) 13-18
 - (D) 19-24
 - (E) 25-31

- 82. Out of the 31 items in the science test, how low could you score and still be satisfied with the results.
 - (A) 0-6
 - (B) 7-12
 - (C) 13-18
 - 19-24 (D)
 - (E) 25-31
- 83. How often do you watch TV documentar programs about nature, medicine, the sola system, or the universe?
 - Just about every day
 - В. Once or twice a week
 - С. Once or twice a month.
 - Once or twice a year D.
 - Rarely or never
- 84. When you perform well on a science assignment at school, it is because
 - A. you are good at it.
 - you worked very hard. В.
 - С. you were lucky.
 - the assignment was easy.
- 85. When you perform poorly on a science assignment at school, it is because
 - you are not very good at it. Α.
 - you did not work hard enough. В.
 - you were unlucky.
 - the assignment was hard.
- 86. How many children are there in your family?
 - Α. Five or more
 - В. Four
 - C. Three
 - D. (Two
 - I am an only child.



- about science?
 - Never or hardly at all
 - Once or twice a month В.
 - Once or twice a week
 - Just about every day
- 88. Are you studying science in school this year?
 - Α. Yes
 - No В.
- .89. How often have you had science in school?
 - Every year Α.
 - Some years but not others
 - Almost never С.
 - Not at all D.
 - Six or more Ε.
- 90. Does your mother and/or father work in some science-related area such as medicine, chemistry, or research?
 - Yes Α.
 - В. No
- 91. How often do you do science projects other than the ones you do for school?
 - Α. Just about every day
 - Once or twice a week В.
 - Once or twice a month
 - Once or twice a year D.
 - Rarely or never
- 92. When was your last science class in school?
- A. Recently
 - B. Last semester
 - C. Last school year
 - D. A few years ago .

ANSWER EACH OF THE FOLLOWING QUESTIONS ABOUT HOW YOU FEEL OR WHAT YOU THINK. THERE ARE NO RIGHT OR WRONG ANSWERS.

- 87. How often do you talk to your parents 93. Knowledge of science is important to me because it helps me get good grades.
 - Strongly agree
 - В.
 - Neither agree nor disagree C.
 - D. Disagree
 - Strongly disagree Ε.
 - 94. Knowledge of science is important to me because it helps me understand the worl around me.
 - Strongly agree Α.
 - В.
 - Neither agree nor disagree С.
 - Disagree D.
 - Strongly disagree Ε..
 - 95. Knowledge of science is important to me because it impresses my friends.
 - Strongly agree
 - В.
 - Neither agree nor disagree С.
 - Disagree D.
 - Strongly disagree . E.
 - 96. Knowledge of science is important to me because it fun to learn.
 - Strongly agree
 - В.
 - Neither agree nor disagree С.
 - Disagree D.
 - Strongly disagree
 - 97. Knowledge of science is important to me because it gets approval from my teach
 - Strongly agree
 - Agree В.
 - Neither agree nor disagree С.
 - Disagree
 - E. Strongly disagree
 - 98. Knowledge of science will impress m friends.
 - Strongly agree
 - В.
 - Neither agree nor disagree С.
 - Disagree D.
 - Strongly disagree Ε.



- 99. Knowledge of science will get me good grades.
 - A. Strongly agree
 - B. Agree
 - C. Neither agree nor disagree
 - D. Disagree
 - E. Strongly disagree
- 100. Knowledge of science will help me understand the world around me.
 - A. Strongly agree
 - B. Agree
 - C. Neither agree nor disagree
 - D. Disagree
 - E. Strongly disagree
- 101. Knowledge of science will be fun to learn.
 - A. Strongly agree
 - B. Agree
 - C. Neither agree nor disagree
 - D. Disagree
 - E. Strongly disagree
- 102. Knowledge of science will get me the approval of my teacher.
 - A. Strongly agree
 - B. Agree
 - C. Neither agree nor disagree
 - D. Disagree
 - E: Strongly disagree.
- 103. Knowledge of science will help me get a good job later in life.
 - A. Strongly agree
 - B. Agree
 - C. Neither agree nor disagree
 - D. Disagree
 - E. Strongly disagree



PART 2

SECTION 2

MATHEMATICS TEST

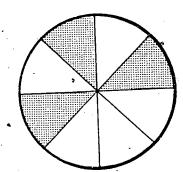
<u>DIRECTIONS</u>: This section contains mathematics items. For each item, read the question and the answer choices. Then, darken the bubble of your choice on the answer sheet. There are 40 mathematics items. You will have 45 minutes. READY, BEGIN.

104. 762 =

- A. 7 + 6 + 2
- B. 7 + 60 + 200
- \cdot C. 700 + 60 + 2
 - D. 70 + 60 + 20
- 105. The number six thousand, four hundred, sixty-five, is written as
 - A. 60,465
 - B. 6,465
 - C. 6,000,400,065
 - D. 6000,400,65
 - 106. What digit is in the tens place in 4,263?
 - A. 2
 - B. 3
 - C. 4
 - D. 6
 - 107. If you spent 72 cents, how much change should you get back from one dollar?
 - A. 8 cents
 - B. 14 cents
 - C. 16 cents
 - D. 28 cents

- 108. Which number is the largest?
 - A. three thousand, two hundred
 - B. four thousand
 - C. two thousand, nine hundred, eighty-six
 - D. three thousand, nine hundred, ninety-eight
- 109. What is the next ODD number after 5?
 - A. F
 - B. 7
 - C. 8
 - D. 9
- 110. What number is 3 more than 999?
 - A. 333
 - B. 996
 - C. 1,002
 - D. 1,003
 - E. 2,997

- 111. Sally worked from 4:30 p.m. to 5:00 p.m. How many minutes did she work?
 - A. 30 minutes
 - B. 35 minutes
 - C. 40 minutes
 - D. 45 minutes
- 112. Divide: 48 : 6 =
 - A. 8
 - B. 12
 - C. 40
 - D. 42
- 113. The figure below is divided into equal parts. What fractional part is shaded?



- $A \cdot \frac{8}{3}$
- B. $\frac{3}{5}$
- $C. \frac{3}{8}$
- $D. \quad \frac{5}{8}$

- 114. Subtract: 2043 - 317
 - A. 1,627
 - B. 1,636
 - C. 1,726
 - D. 1,736
- 38 115. Multiply: <u>x 7</u>
 - A. 86
 - B. 266
 - C. 356
 - D. 566
- 116. A sports car owner says that the car gets 22 miles per gallon of gasoline. How many miles could the car go on seven gallons of gasoline?
 - A. 144 miles
 - B. 154 miles
 - C. 164 miles
 - D. 174 miles

126 117. Add: + 738

- A. 854
- B. 864
- C. 874
- D. 954

118. Divide: 4/148

- A. 32
- B. 37
- C. 012
- D. 210
- 119. An astronaut orbited the earth in a space capsule for seven days. If he drank three pints of water each day, how many pints of water did he drink on the trip?
 - A. 3 pints
 - B. 4 pints
 - C. 10 pints
 - D. 21 pints

- 120. How many quarts are in one gallon?
 - A. 1 quart
 - B. 2 quarts
 - C. 3 quarts
 - D. 4 quarts

121. Subtract: \$4.21 - 2.17

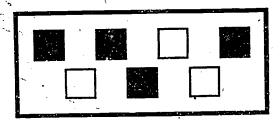
- A. \$214
- B. \$204
- C. \$2.04
- D. \$2.14
- 122. If one-fourth of the dots in the figure below are taken away, how many dots will be left?
 - A. 4 dots
 - B. 5 dots



D. 7 dots



- 123. About how long is the paper clip above the metric ruler?
 - A. 3 mm
 - B. 3 cm
 - C. 3 m
 - D. 3 km
- 124. The box contains squares. What fractional part of the squares is shaded?



- A. $\frac{?}{4}$
- B. $\frac{3}{7}$
- C. $\frac{4}{3}$
- D. $\frac{4}{7}$

In this subtraction problem, wha two numbers could you add to check the answer?

- A. 179 and 315
- B. 136 and 179
 - C. 136 and 315
- 126. How many milliliters are in one liter?
 - A. 1
 - B. 10
 - C. 100
 - D. 1,000
- 127. Which of the following is true?
 - A. 653,804 > 653,084
 - B. 653,804 < 653,084
 - C. 653,804 = 653,084

- 128. Four and two-fifths may be written as
 - A. $\frac{42}{5}$
 - B. $\frac{4}{25}$
 - C. $4\frac{2}{5}$
 - D. None of these
- 129. Janet worked from 8:00 a.m. to 5:00 p.m. She had an hour off for lunch. How many hours did she work?
 - A. 3 hours
 - B. 8 hours
 - C. 9 hours
 - D. 13 hours
- 130. If Independence Day, July 4, comes on Monday, what is the date of the next Monday?
 - A. July 10
 - B. July 11
 - C. July 12
 - D. July 13

- 131. How many inches are there in one foot?
 - A. 12 inches
 - B. 24 inches.
 - C. 36 inches
 - D. 48 inches
- 132. Mary earned \$1.00 raking leaves. Candy bars cost 15 cents. What is the largest number of candy bars she can buy with her money?
 - A. 3
 - B. 4
 - C. 6
 - D. 7
- 133. A rocket was directed at a target 525 miles south of its launching point. It landed 624 miles south of the launching point. By how many miles did it miss its target?
 - A. 1,159 miles
 - B. 1,149 miles
 - C. 109 miles
 - D. 99 miles

38 · 134. Multiply: <u>x 9</u>

- A. 342
- B. 272
- C. 2772
- D. 902

135. If you have one quarter, two nickels, and four pennies, how much money do you have all together?

- A: 34 cents
- B. 39 cents
- C. 44 cents
- D. 49 cents

136. The number of centimeters in one meter is

- $A. \quad \frac{1}{100}$
- B. 10
- C. 100
- .D. 51000

137. It takes Fred 5 minutes to wash window. About how many minutes will it take him to wash 10 windows?

- A. 2 minutes
- B. 15 minutes
- C. 25 minutes
- D. 50 minutes

138. Which is the CLOSEST to the size of one square centimeter?

- A. A tennis court
- 5. Your thumbnail
- C. A slice of bread
- D. The cover of a record album

139. In the picture below, if square is the first square, then the letter B is in the ____ square.

			1		
Α.			В	\Box	

- A. Fourth
- B. Fifth
- C. Sixth
- D. Seventh

- 140. John has 385 stamps in his stamp collection. Greg has 230, Pete has 310 and Bob has 175. The number of stamps the boys have all together is
 - A. 900 stamps.
 - B. 1,000 stamps.
 - C. 1,100 stamps.
 - D. 1,200 stamps.
- 141. How many ounces are there in one pound?
 - A. 8 ounces
 - B. 10 ounces
 - C. 16 ounces
 - D. 32 ounces
- 142. What number makes the sentence true?

- **Α.** ό
- B. 8
- C. 9
- D. *28

143. Select the figure which is a rectangle.

	/
Α.	/



С.	





Illinois State Board of Education

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