DIRECTIONS

Read each question carefully and choose the best answer. Then mark the space in the answer document for the answer you have chosen.

SAMPLE

When the Earth is seen from outer space, it looks mainly blue. This is because most of the Earth is covered with —

A ice  
B mountains  
C oceans  
D deserts
1. What are adult cardinals able to do that baby cardinals are unable to do?
   A. Fly
   B. Make noise
   C. Breathe air
   D. Sleep

2. What makes the needle on the compass in the picture point north?
   F. Rainfall
   G. Evaporation
   H. Wind currents
   J. Magnetism
3. These pictures can be put in order to tell a story. Which of these pictures MOST likely comes last?

A

B

C

D
The graph shows what happened when salt was added to water in a glass. According to the graph, which of these is correct?

F  Salt tastes different when water is heated.
G  Salt will cause water to heat up.
H  Salt is used to make hot water.
J  Salt dissolves more easily in hot water.

5 A student wants to look under a heavy rock. Which simple machine would be BEST to use to lift the rock?

A  Wheel and axle
B  Lever
C  Inclined plane
D  Screw
6. A wetland habitat can continue to support the birds and fish that live there if people —

F. drain the water away
G. flood the highest parts of the land
H. leave the land alone
J. use the land for planting crops

7. Using the picture, which measurement is closest to how far the frog jumped?

A. 12 centimeters (cm)
B. 14 centimeters (cm)
C. 18 centimeters (cm)
D. 20 centimeters (cm)
8 Which sense is used to tell if there is sugar in a glass of tea?

F  Touch
G  Hearing
H  Smell
J  Taste

9

A rattlesnake belongs in which of the above groups?

A  Group 1
B  Group 2
C  Group 3
D  Group 4
These girls can hear each other because the string —

F vibrates
G stretches
H is strong
J is long
Which of the following describes the motion of Earth shown in this picture?

A  Vibrating
B  Rotating
C  Revolving
D  Falling
Which graph BEST shows how many of each fish are in the tank?

- **F**
  - Fish in Tank
  - Number of Fish
  - [Bar graph showing fish counts]

- **H**
  - Fish in Tank
  - Number of Fish
  - [Bar graph showing fish counts]

- **G**
  - Fish in Tank
  - Number of Fish
  - [Bar graph showing fish counts]

- **J**
  - Fish in Tank
  - Number of Fish
  - [Bar graph showing fish counts]
13 Which of these is an example of liquid water?

A Frost  
B Ice  
C Rain  
D Steam
14 Salamanders have a tail, smooth skin, and feet with no claws. Which of these animals is a salamander?

F

G

H

J
15 Which of these warms most of the air, water, and land on Earth?

A Coal
B Electricity
C Sunlight
D Wind

16 If water gets into the crack of a rock and then freezes, the rock will MOST likely —

F break apart
G be able to float
H become larger
J change colors
This food chain is MOST likely to be found in what type of environment?

A  A stream  
B  A marshland  
C  An ocean  
D  A forest

18 Which of these does the MOST harm to the air?

F  Chopping down trees with an ax in the backyard
G  Collecting fall leaves
H  Cutting grass with a gas-powered lawnmower
J  Picking colorful wildflowers along the highway
Which of these shows the day when this thermometer was left outside?

A

B

C

D
20 Which diagram shows a back-and-forth motion?

F

G

H

J
22 Barry collected four different rocks. The rock with the GREATEST mass will feel the —

- F heaviest
- G smoothest
- H sharpest
- J hardest
23 A dog gets the energy it needs to run from —

A  the air
B  the Sun
C  food
D  water

24 A girl kept a plant under a light for 30 days. She measured how tall the plant was every 5 days. The graph shows the results. What conclusion can be drawn from the graph?

F  A plant kept under light stays the same size.
G  A plant kept under light gets taller with time.
H  A plant kept under light gets shorter with time.
J  A plant kept under light is hard to measure.
25 Which of these graduated cylinders contains 16 mL of water?
These three plants are grouped together because all three —

F need some shade
G lose their leaves
H are shrubs
J have thorns
27 Which of these shows a pulley?

A

B

C

D

— 22 —
This habitat is BEST for which type of pet?

F  Lizard
G  Butterfly
H  Fish
J  Bird
29  Which of these living things is a producer in a food chain?

A

B

C

D
30  A summer day begins with a clear, sunny sky. Then, dark clouds form in the afternoon. What type of weather will MOST likely happen next?

F  Sleet and snow
G  Rain and thunder
H  Wind and snow
J  Fog and wind

31  If a wooded area is cleared and corn is planted, what will MOST likely happen?

A  Animal habitats will be destroyed.
B  The air will become polluted.
C  Weather patterns will change.
D  Underground streams will get polluted.

32  Cows are farm animals that eat only plants. Which of these kinds of living things is a cow?

F  Decomposer
G  Herbivore
H  Carnivore
J  Producer
33  Which of these causes the MOST evaporation of water from a lake?
   A  Freezing of the lake
   B  Heat from the Sun
   C  Melting snow forming streams
   D  Volcanic activity near the lake

34  The seeds of an oak come from the —
   F  fruit
   G  leaf
   H  root
   J  stem

35  When a tadpole grows, its gills change into lungs. What does it now need to survive?
   A  Air
   B  Water
   C  Soil
   D  Fins
36  A student wants to cut a piece of string for a class activity. The length of the string is measured BEST in which units?

F  Gallons  
G  Liters  
H  Miles  
J  Centimeters

37  Which of these belongs in the center?

Fur  Scales
Skin  Feathers

Which of these belongs in the center?

A  Things that cover animal bodies  
B  Things that make the animal smaller  
C  Things that keep animal bodies cool  
D  Things that help animal bodies get oxygen
Which word tells how a lasagna noodle looks compared to a spaghetti noodle?

F  Longer
G  Lighter
H  Smaller
J  Wider
An experiment tests how many minutes students take to finish their lunches in the school cafeteria. The chart shows the average times for grades 3, 4, 5, and 6.

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<th>Grade Level</th>
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At which grade level do the students spend MOST of the 30-minute lunch period eating their lunches?

A. Grade 3  
B. Grade 4  
C. Grade 5  
D. Grade 6
40 Which picture shows the way that two magnets will attract?

F

G

H

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