DIRECTIONS
Read each question carefully and choose the best answer. Then mark the space in the answer booklet 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

Some of the stages in the development of a dandelion are shown above, but they are out of order. What should be the order of the pictures?

A 1, 4, 2, 3
B 1, 3, 2, 4
C 4, 1, 2, 3
D 4, 3, 2, 1
What is the temperature of the air around the thermometer?

F  0°Celsius  
G  3°Celsius  
H  5°Celsius  
J  8°Celsius

3 Which of these best shows wheels and axles being used?

A  
B  
C  
D

4 Water trapped inside the cracks of rocks may freeze during the winter. This can cause —

F  earthquakes to occur  
G  rocks to break apart  
H  diamonds to form  
J  volcanic rocks to form

5 Which of these shows the correct way to put these wooden blocks in order by size from smallest to largest?

A  
B  
C  
D
6. Which object will be attracted to a magnet?

F

H

G

J

7. Which of the following graphs correctly shows the above data gathered by a third-grade student?

<table>
<thead>
<tr>
<th>Student</th>
<th>Favorite Color</th>
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<tr>
<td>John</td>
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<td>Sidney</td>
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<tr>
<td>Bernard</td>
<td>Purple</td>
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</tbody>
</table>

Which of the following graphs correctly shows the above data gathered by a third-grade student?
8

The picture shows a stick of clay. When the clay was cut into pieces, which of these was the **only** thing that changed?

F  Its stickiness
G  Its softness
H  Its shape
J  Its color

9

What is the volume of water in the eyedropper?

A  2.0 milliliters
B  2.2 milliliters
C  20 milliliters
D  25 milliliters

10 The weather is part of the daily news. Tracking the weather is most important for people who—

F  work in banks
G  sell televisions
H  plant crops
J  use computers
11 Many plants wilt in the summertime because they do not have enough —
A flowers
B water
C heat
D leaves

12 Perfume is sprayed in the air. You can smell it but not see it because —
F perfume is a liquid
G it is very expensive
H your nose is more sensitive
J the droplets are too small to see

13 Which of these shows a rock with a mass of 10 grams?

14 Which of these is a natural part of soil?
F Paper
G Plastic
H Silt
J Tires
15 Which of these objects can make both of the shadows above?

A [Image of a cone]
B [Image of a sphere]
C [Image of a triangle with yield symbol]
D [Image of a pyramid]

16 Which of these shows food-storing behavior?

F A dog barking at a cat
G A bird building a nest
H An ant carrying a larva to a new nest
J A squirrel burying nuts

17 Which of these will most likely float on water?

A A ball of clay
B A block of pine wood
C A nickel
D A nail

18 Which box shows an animal that mimics the other animal for protection?

F Polar Bear Panda
G Monarch Viceroy
H Leaf Butterfly Walking Stick
J Bat Bird
19 Which of these is a natural resource?
A Coal
B Plastic
C Cloth
D Brick

20 Which block will finish the pattern?
F Blue
G Green
H Red
J Yellow

21 Which of the following objects can increase in volume?

22 Which type of habitat is this animal best suited for?
F Marshlands
G Open plains
H Sandy beaches
J Freshwater ponds

23 Which of these can a tree live without?
A Air
B Water
C Birds
D Light
In this food chain, which organism is the producer?

F  Snake  
G  Frog  
H  Caterpillar  
J  Leaf

Roberto found the young plant shown in the picture. Which of the four plants below might later have developed from that young plant?
The picture shows some ring magnets on a pencil. What can be understood about these magnets from looking at this picture?

F  The wood in the pencil is attracted to the poles of the magnets.
G  The poles of these magnets have been cut away.
H  The same poles of the magnets are facing each other.
J  The poles of the magnets are around the outside of each magnet.

27 Which of these is a nonliving thing that mice need to live?
A  Water
B  Grass
C  Seeds
D  Rocks

28 Sugar will dissolve most easily in which beaker?
F  Water at 0°C
G  Water at 15°C
H  Water at 30°C
J  Water at 60°C
29 The roots of a desert plant are close to the surface of the ground. This helps the plant —
A stay warm
B get more air
C make food more quickly
D take in rainwater quickly

30 Raccoons eat fish, berries, nuts, and green plants. The raccoon is —
F a producer
G an omnivore
H a decomposer
J a carnivore

31 Which will measure air temperature?
A
B
C
D

32 Which of these animals should be in a group that has six legs and only two wings?
F
G
H
J
33 How do frogs survive the cold winter?
   A They migrate.
   B They become camouflaged.
   C They hide in the trees.
   D They hibernate.

34 Which planet is probably the hottest?
   F Mars
   G Earth
   H Venus
   J Mercury

35 Which of these shows an inclined plane?
   A
   B
   C
   D
What natural event most likely caused the damage to this forest habitat?

F  A flood  
G  A fire  
H  A hurricane  
J  An earthquake

37 Soil is important for plant growth because it —

A  makes the Earth’s surface hard  
B  moves easily from one place to another  
C  does not let plant roots grow too deep  
D  contains nutrients to help plants grow

38 Which of these shows what the weather is like during the summertime in Virginia?

F

30 40 50 60 70 80 90

Jun Jul Aug Sep

G

30 40 50 60 70 80 90

Jun Jul Aug Sep

H

30 40 50 60 70 80 90

Jun Jul Aug Sep

J

30 40 50 60 70 80 90

Jun Jul Aug Sep
39 A ball is placed in the beam of a flashlight. The ball will —
A become larger
B create a shadow
C move away from the light
D move toward the light

40 The pencil above is about —
F 1 centimeter
G 3 centimeters
H 10 centimeters
J 20 centimeters
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<th>Correct Answer</th>
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