ROUND 1

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TOSS-UP

Matitute Mark is 198 Militate Mark 13 180 1) LIFE SCIENCE Short Answer What organelle functions to isolate a human cell's chromosomes from the cytoplasm? ANSWER: NUCLEUS Millinin 教育 养 · 溪 序

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BONUS

1) LIFE SCIENCE Short Answer What is the primary oxygen-carrying protein found in red blood cells? Marithus Mar # 13 PR Mylithin Mar H ' & PR

ANSWER: HEMOGLOBIN

TOSS-UP

solid and gas? 2) PHYSICAL SCIENCE Short Answer What physical state of matter is intermediate between a

ANSWER: LIQUID

BONUS

2) PHYSICAL SCIENCE *Multiple Choice* Which of the following BEST describes the term static:

W) stationary

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- W) stationary
- X) low
- Y) constant

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Maritha Mar # 18 18

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ANSWER: W) STATIONARY

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3) EARTH SCIENCE Short Answer What is the general name for the rising and falling of sea levels in response to the forces exerted by the Moon and Sun?

ANSWER: TIDES

1

Y.

Y.

Y.

Y.

1

1

Y.

Y.

Myithin 教教教·蒙豫

BONUS

3) EARTH SCIENCE Multiple Choice Approximately what fraction of Earth's surface is covered by oceans:

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- W) one-half
- Y) seven-tenths
 Z) four fix

ANSWER: Y) SEVEN-TENTHS

TOSS-UP

Matinta Mar 14 18 1980 4) MATH Short Answer How many degrees are in one-third of a right angle?

ANSWER: 30

BONUS

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Marith Mar 44 '8 PR

4) MATH Short Answer Round the number 535,279 to the nearest ten-thousand:

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ANSWER: 540,000 Mytitud Ar At & P. Milling 教教教養學

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4. 数米洛尔

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5) GENERAL SCIENCE *Short Answer* The number 4.56×10^{11} has how many zeroes?

ANSWER: 9

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1

1

Ph.

Y.

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BONUS

5) GENERAL SCIENCE *Short Answer* Giving your answer in grams, subtract 200 grams from 6.2 kilograms:

ANSWER: 6,000 (ACCEPT: 6×10^3)

TOSS-UP

6) LIFE SCIENCE Short Answer How many permanent teeth does a typical adult human have?

ANSWER: 32

BONUS

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6) LIFE SCIENCE Short Answer How many canine teeth does the typical human adult have?

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ANSWER: 4

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The Other Parties	7) PHYSICAL SCIENCE	******* *	A 1 1 1 1 1 2	4 Y 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A 471.11"
Million	force but it doesn't budge.	If the couch weig	ghed 2,000 newton	ns, how much work di	d she do:

W) 0

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Y.

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Y.

Y.

Y.

1

1

Y.

Y.

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X) 50 watts

Z) 2000 joules

ANSWER: W) 0

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BONUS

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7) PHYSICAL SCIENCE Short Answer Jeff walks west in a straight path for 100 meters and then east in a straight path for 150 meters. What is the magnitude of big discussion.

ANSWER: 50

TOSS-UP

8) EARTH SCIENCE Multiple Choice The hydrologic cycle describes the circulation of Earth's:

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- W) tides
- Y) sediments
 Z) rocke

ANSWER: X) WATER

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8) EARTH SCIENCE *Short Answer* What is the name of the rock that makes up most of the ocean floor and volcanic ocean islands?

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ANSWER: BASALT Mytitute ## # 18 PK Militale Art & R.

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9) MATH Short Answer In a right triangle, what is the name for the side opposite the 90° angle?

ANSWER: HYPOTENUSE

BONUS

9) MATH *Short Answer* Rounded to the nearest meter, find the length of the hypotenuse of a right triangle if the legs measure 5 and 12 meters?

ANSWER: 13

Y.

Y.

Y.

Y.

Y.

1

1

Y.

Y.

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(Solution: $5^2 + 12^2 = c^2$; c = 13)

TOSS-UP

10) GENERAL SCIENCE Short Answer What is the SI base unit for length?

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ANSWER: METER

BONUS

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10) GENERAL SCIENCE Short Answer Name all of the following 3 choices that are Milling 教教教學 measurements units for speed: mach; newton; knots

ANSWER: MACH; KNOTS

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Military &	11) LIFE SCIENCE types of tissues:	Multiple Choice	Most of the heart	is composed of which	n of the following

W) epithelial

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Y.

Y.

Y.

Y.

Y.

1

1

Ph.

Y.

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X) connective

Z) muscle Y) nervous

ANSWER: Z) MUSCLE

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11) LIFE SCIENCE Short Answer In the taxonomical name Homo sapiens, what taxonomical rank does sapiens represent?

ANSWER: SPECIES

TOSS-UP

slithte 横林 · 著序 12) PHYSICAL SCIENCE Short Answer What atomic particle balances the charge of protons to produce a neutral atom?

ANSWER: ELECTRON

BONUS

12) PHYSICAL SCIENCE Short Answer Isotopes of the same element are based on their different numbers of what atomic particle? ANSWER: NEUTRONS Militalle And At 18 18 Myithin Mark 18 18

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13) EARTH SCIENCE Short Answer Which of the Gas giant planets is closest to the Sun?

ANSWER: JUPITER

Y.

Y.

Y.

Y.

1

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Y.

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BONUS

13) EARTH SCIENCE *Short Answer* What are the 2 main factors causing the metamorphism of rocks?

ANSWER: HEAT AND PRESSURE (in any order)

14) MATH Short Answer What is the name for any segment with one endpoint at the center of a circle and the other endpoint on the circle?

ANSWER: RADIUS (ACCEPT: RADII)

BONUS

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14) MATH *Short Answer* Rounded to the nearest ten-thousandth, convert $\frac{1}{3}$ rd to a decimal: ANSWER: 0.3333 (ACCEPT: .3333) Minimus At 18 18

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ANSWER: 0.3333 (ACCEPT: .3333)

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15) GENERAL SCIENCE *Short Answer* If there are 640 ounces of water in 5 gallons, how many ounces are in ½ gallon?

ANSWER: 64

Y.

Y.

1%

Y.

Y.

1

Ph.

Y.

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BONUS

15) GENERAL SCIENCE *Short Answer* Name all of the following 4 choices that are measurement units of area: meter; hectare; acre; mile

ANSWER: HECTARE; ACRE

TOSS-UP

16) LIFE SCIENCE Short Answer What is generally considered the basic unit of life?

ANSWER: THE CELL

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4. 数米洛尔

BONUS

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16) LIFE SCIENCE *Short Answer* In what organelle of a plant cell does photosynthesis occur?

ANSWER: CHLOROPLAST (ACCEPT: PLASTID)

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17) PHYSICAL SCIENCE Short Answer An ionic state of an atom of hydrogen would have how many protons?

ANSWER: 1

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Y.

Y.

1

Y.

1

1

Ph.

Y.

BONUS

17) PHYSICAL SCIENCE Short Answer What is the name for the biochemical process that converts grape juice into wine or soy beans into soy sauce?

ANSWER: FERMENTATION

TOSS-UP

18) EARTH SCIENCE Short Answer Giving your answer as north, south, east, or west, a southerly wind blows FROM what direction? Constitute the state of the Mythun 新春春·養 學

ANSWER: SOUTH

BONUS

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18) EARTH SCIENCE Multiple Choice Which of the following clouds has little vertical TIMINININ STATE OF STATES Militale Art 18 18 The string of th development:

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- W) altostratus
- X) altocumulus
- Y) cirrus

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Z) nimbostratus

ANSWER: Y) CIRRUS

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19) MATH Short Answer What is the exact circumference, in centimeters, of a circle whose radius is 3 centimeters?

ANSWER: 6π

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1

W.

1

Y.

1

1

Ph.

Y.

BONUS

19) MATH Short Answer Change each of the following 3 fractions, respectively, to equivalent fractions with a denominator of 30: $\frac{1}{3}$; $\frac{3}{5}$; $\frac{5}{6}$ Marithus 教育 养 · 漢 序》

ANSWER: 10

TOSS-UP

20) GENERAL SCIENCE Short Answer What is the common name for the antiseptic, found in many homes, that decomposes into water and oxygen?

ANSWER: HYDROGEN PEROXIDE

BONUS

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20) GENERAL SCIENCE *Short Answer* What is the chemical formula for hydrogen peroxide?

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ANSWER: H₂O₂

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21) LIFE SCIENCE Short Answer What is the scientific name for the white of a cooked egg?

ANSWER: ALBUMEN

Y.

Y.

Y.

Y.

Y.

1

1

Ph.

1

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BONUS

21) LIFE SCIENCE *Short Answer* What term is generally used for biological catalysts?

ANSWER: ENZYMES

TOSS-UP

Milital Mark & PR 22) PHYSICAL SCIENCE Short Answer What term do scientists use for the force of gravity acting on anything that has mass?

ANSWER: WEIGHT

BONUS

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22) PHYSICAL SCIENCE Short Answer How many protons are present in a single helium nucleus?

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4 11 11 11	23) EARTH SCIENCE increased possibility of:	Multiple Choice	A weather forecast of	of 100% relative humi	dity suggests an

W) rain

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Y.

Y.

Y.

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1

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X) wind

Z) drying conditions Y) rising temperature

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ANSWER: W) RAIN

BONUS

Militate # # 18 PR

23) EARTH SCIENCE *Short Answer* What is the name for all Great Circles that pass through the north and south poles?

ANSWER: LONGITUDES (ACCEPT: MERIDIANS)

TOSS-UP

24) MATH Short Answer Every triangle has how many vertices?

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ANSWER: 3

BONUS

24) MATH Short Answer If the perimeter of a triangle is 45 centimeters and the lengths of two of its sides are 16 and 12 centimeters, find the length of the third side, in centimeters:

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Mythun 新春 株 淺 序 ANSWER: 17 Time time was the same

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Matinta Mar No. 18 PR 25) GENERAL SCIENCE Short Answer What general term describes the angle or degree north or south of the equator?

ANSWER: LATITUDE

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Mulitude Mar by 13 1982 25) GENERAL SCIENCE Short Answer The geographic north pole is at what latitude?

ANSWER: 90 (ACCEPT: 90° NORTH) Matinta Mar ph '8 PR Marithle Mar Hr ' & PR Mylithin Mar At 13 198

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