

SCIENCE

A. Multiple Choice

1. Which organelle is known as the powerhouse of the cell?

- A. Nucleus
- B. Ribosome
- C. Mitochondrion
- D. Vacuole

Answer: C. Mitochondrion

2. Which process do plants use to make food?

- A. Respiration
- B. Digestion
- C. Photosynthesis
- D. Transpiration

Answer: C. Photosynthesis

3. What type of energy is stored in food?

- A. Thermal
- B. Chemical
- C. Mechanical
- D. Electrical

Answer: B. Chemical

4. Which blood cells help fight infection?

- A. Red blood cells
- B. Platelets



C. White blood cells

D. Plasma

Answer: C. White blood cells

5. What is the basic unit of life?

A. Tissue

B. Organ

C. Cell

D. System

Answer: C. Cell

6. Which gas is most abundant in the Earth's atmosphere?

A. Oxygen

B. Carbon dioxide

C. Nitrogen

D. Hydrogen

Answer: C. Nitrogen

7. What force keeps planets in orbit around the sun?

A. Magnetism

B. Friction

C. Gravity

D. Electricity

Answer: C. Gravity

8. Which part of the human brain controls balance?

A. Cerebrum

B. Cerebellum

C. Medulla



D. Spinal cord

Answer: B. Cerebellum

9. What form of energy does a moving object have?

A. Potential

B. Chemical

C. Kinetic

D. Nuclear

Answer: C. Kinetic

10. Which system is responsible for breathing?

A. Digestive system

B. Circulatory system

C. Respiratory system

D. Nervous system

Answer: C. Respiratory system

11. What happens during evaporation?

A. Solid turns into liquid

B. Liquid turns into gas

C. Gas turns into liquid

D. Solid turns into gas

Answer: B. Liquid turns into gas

12. Which vitamin is produced when skin is exposed to sunlight?

A. Vitamin A

B. Vitamin B

C. Vitamin C

D. Vitamin D



Answer: D. Vitamin D

13. What is the boiling point of water at sea level?

A. 0°C

B. 50°C

C. 100°C

D. 150°C

Answer: C. 100°C

14. Which planet is known as the Red Planet?

A. Venus

B. Mars

C. Jupiter

D. Saturn

Answer: B. Mars

15. Which substance has a definite shape and volume?

A. Gas

B. Liquid

C. Solid

D. Plasma

Answer: C. Solid

16. What organ filters waste from the blood?

A. Heart

B. Liver

C. Kidneys

D. Lungs

Answer: C. Kidneys



17. What is the function of roots in plants?

- A. Make food
- B. Absorb water and minerals
- C. Produce seeds
- D. Release oxygen

Answer: B. Absorb water and minerals

18. Which wave does not need a medium to travel?

- A. Sound wave
- B. Water wave
- C. Light wave
- D. Seismic wave

Answer: C. Light wave

19. What type of change occurs when ice melts?

- A. Chemical change
- B. Physical change
- C. Nuclear change
- D. Biological change

Answer: B. Physical change

20. Which organ is responsible for digestion of food?

- A. Heart
- B. Brain
- C. Stomach
- D. Lungs

Answer: C. Stomach

21. What is the smallest particle of an element?



A. Molecule

B. Atom

C. Cell

D. Ion

Answer: B. Atom

22. Which sense organ is used for hearing?

A. Eye

B. Nose

C. Ear

D. Tongue

Answer: C. Ear

23. What causes day and night?

A. Revolution of Earth

B. Rotation of Earth

C. Tilt of Earth

D. Gravity of Moon

Answer: B. Rotation of Earth

24. Which part of the plant conducts food?

A. Xylem

B. Phloem

C. Root hair

D. Stomata

Answer: B. Phloem

25. What type of energy is heat?

A. Chemical



B. Mechanical

C. Thermal

D. Nuclear

Answer: C. Thermal

26. What system controls body activities?

A. Skeletal system

B. Muscular system

C. Nervous system

D. Digestive system

Answer: C. Nervous system

27. Which object reflects light?

A. Mirror

B. Air

C. Sound

D. Heat

Answer: A. Mirror

28. Which planet is the largest in the solar system?

A. Earth

B. Mars

C. Jupiter

D. Saturn

Answer: C. Jupiter

29. What is the main function of leaves?

A. Support

B. Photosynthesis



C. Absorption

D. Reproduction

Answer: B. Photosynthesis

30. Which material is a conductor of electricity?

A. Plastic

B. Wood

C. Rubber

D. Copper

Answer: D. Copper

31. What is the normal human body temperature?

A. 35°C

B. 36°C

C. 37°C

D. 38°C

Answer: C. 37°C

32. What organ pumps blood throughout the body?

A. Brain

B. Heart

C. Lungs

D. Kidney

Answer: B. Heart

33. Which gas is released by plants during photosynthesis?

A. Oxygen

B. Nitrogen

C. Carbon dioxide



D. Hydrogen

Answer: A. Oxygen

34. What is the study of living things called?

A. Chemistry

B. Physics

C. Biology

D. Geology

Answer: C. Biology

35. Which force opposes motion?

A. Gravity

B. Magnetism

C. Friction

D. Electricity

Answer: C. Friction

36. What part of the eye controls the amount of light entering?

A. Retina

B. Pupil

C. Optic nerve

D. Lens

Answer: B. Pupil

37. Which type of energy is stored energy?

A. Kinetic

B. Thermal

C. Potential

D. Electrical



Answer: C. Potential

38. What gas do humans exhale?

A. Oxygen

B. Nitrogen

C. Carbon dioxide

D. Hydrogen

Answer: C. Carbon dioxide

39. Which organ helps detoxify chemicals in the body?

A. Heart

B. Liver

C. Lung

D. Brain

Answer: B. Liver

40. Which layer of the Earth is the hottest?

A. Crust

B. Mantle

C. Outer core

D. Inner core

Answer: D. Inner core

B. True or False

41. Cells are the basic unit of life.

Answer: True

42. Sound travels faster than light.



Answer: False

43. Plants need sunlight to perform photosynthesis.

Answer: True

44. Gravity pulls objects toward the Earth.

Answer: True

45. Humans have four lungs.

Answer: False

46. Energy cannot be created or destroyed.

Answer: True

47. Water is a compound.

Answer: True

48. The heart is part of the circulatory system.

Answer: True

49. Metals are good conductors of heat.

Answer: True

50. The Moon produces its own light.

Answer: False

51. Oxygen is needed for respiration.

Answer: True

52. The brain controls voluntary actions.

Answer: True

53. Friction helps objects move faster.

Answer: False

54. The Earth has one natural satellite.

Answer: True



55. Heat flows from cold to hot objects.

Answer: False

56. Plants absorb water through their leaves.

Answer: False

57. Blood carries oxygen to body cells.

Answer: True

58. Electricity is a form of energy.

Answer: True

59. Humans are vertebrates.

Answer: True

60. The sun is a star.

Answer: True

MATHEMATICS

A. Multiple Choice

61. What is $48 + 72$?

A. 110

B. 120

C. 130

D. 140

Answer: B. 120



62. What is 15×8 ?

A. 110

B. 115

C. 120

D. 125

Answer: C. 120

63. What is $144 \div 12$?

A. 10

B. 11

C. 12

D. 13

Answer: C. 12

64. Which is a prime number?

A. 4

B. 6

C. 9

D. 11

Answer: D. 11

65. What is the value of x in $x - 9 = 16$?

A. 7

B. 16

C. 25

D. 27

Answer: C. 25

66. What is 3^2 ?



A. 3

B. 6

C. 9

D. 12

Answer: C. 9

67. What is the fraction form of 0.5?

A. $\frac{1}{3}$

B. $\frac{1}{2}$

C. $\frac{2}{3}$

D. $\frac{3}{4}$

Answer: B. $\frac{1}{2}$

68. What is the perimeter of a rectangle with length 6 and width 4?

A. 20

B. 24

C. 28

D. 30

Answer: A. 20

69. What is the area of a square with side 7?

A. 14

B. 28

C. 42

D. 49

Answer: D. 49

70. What is $200 - 85$?

A. 105



B. 110

C. 115

D. 120

Answer: C. 115

71. Which number is divisible by 3?

A. 10

B. 14

C. 18

D. 20

Answer: C. 18

72. What is 5^3 ?

A. 15

B. 25

C. 75

D. 125

Answer: D. 125

73. What is the LCM of 4 and 6?

A. 8

B. 10

C. 12

D. 24

Answer: C. 12

74. What is the GCF of 12 and 18?

A. 3

B. 6



C. 9

D. 12

Answer: B. 6

75. What is 60% of 200?

A. 100

B. 110

C. 120

D. 130

Answer: C. 120

76. Solve: $7x = 63$

A. 7

B. 8

C. 9

D. 10

Answer: C. 9

77. What is the sum of angles in a triangle?

A. 90°

B. 120°

C. 180°

D. 360°

Answer: C. 180°

78. What is $\sqrt{81}$?

A. 7

B. 8

C. 9



D. 10

Answer: C. 9

79. Which is an odd number?

A. 14

B. 18

C. 22

D. 27

Answer: D. 27

80. What is $\frac{1}{4} + \frac{1}{4}$?

A. $\frac{1}{2}$

B. $\frac{1}{3}$

C. $\frac{2}{3}$

D. 1

Answer: A. $\frac{1}{2}$

81. What is the value of $2x + 4 = 10$?

A. 2

B. 3

C. 4

D. 5

Answer: B. 3

82. What is 9×9 ?

A. 72

B. 81

C. 90

D. 99



Answer: B. 81

83. What is $1000 \div 25$?

A. 20

B. 30

C. 40

D. 50

Answer: C. 40

84. What is the decimal form of $\frac{3}{4}$?

A. 0.25

B. 0.50

C. 0.75

D. 1.25

Answer: C. 0.75

85. What is the perimeter of a square with side 8?

A. 24

B. 28

C. 32

D. 36

Answer: C. 32

86. Solve: $x/5 = 6$

A. 25

B. 30

C. 35

D. 40

Answer: B. 30



87. What is the ratio of 2:4 in simplest form?

A. 1:4

B. 1:2

C. 2:4

D. 4:2

Answer: B. 1:2

88. What is 45% of 100?

A. 40

B. 45

C. 50

D. 55

Answer: B. 45

89. What is the next number: 2, 4, 8, 16, ___?

A. 24

B. 30

C. 32

D. 34

Answer: C. 32

90. What is the value of 6^2 ?

A. 12

B. 24

C. 36

D. 48

Answer: C. 36

91. What is the sum of interior angles of a quadrilateral?



A. 180°

B. 270°

C. 360°

D. 540°

Answer: C. 360°

92. What is $\frac{7}{14}$ in simplest form?

A. $\frac{1}{14}$

B. $\frac{1}{7}$

C. $\frac{1}{2}$

D. $\frac{7}{2}$

Answer: C. $\frac{1}{2}$

93. What is $90 - 37$?

A. 43

B. 53

C. 63

D. 73

Answer: B. 53

94. What is 12×12 ?

A. 124

B. 134

C. 144

D. 154

Answer: C. 144

95. What is the value of x if $3x + 6 = 15$?



- A. 2
- B. 3
- C. 4
- D. 5

Answer: B. 3

96. Which number is a multiple of 5?

- A. 18
- B. 21
- C. 25
- D. 28

Answer: C. 25

97. What is the area of a rectangle with length 10 and width 5?

- A. 25
- B. 40
- C. 50
- D. 60

Answer: C. 50

98. What is 0.25×100 ?

- A. 15
- B. 20
- C. 25
- D. 30

Answer: C. 25

99. What is the cube of 4?

- A. 12



B. 16

C. 32

D. 64

Answer: D. 64

100. What is the value of $5 + (6 \times 3)$?

A. 23

B. 33

C. 35

D. 45

Answer: A. 23

B. Word Problems

101. A pen costs 15 pesos. How much will 6 pens cost?

Answer: 90 pesos

102. A rectangle has a length of 12 cm and width of 6 cm. Find its area.

Answer: 72 square centimeters

103. If a student scored 85, 90, and 95, what is the average score?

Answer: 90

104. There are 240 students divided equally into 6 sections. How many students per section?

Answer: 40 students

105. A book costs 120 pesos. You pay 200 pesos. How much is your change?

Answer: 80 pesos

106. What is the perimeter of a square with side 9 cm?

Answer: 36 centimeters



107. If $x = 8$, find the value of $2x + 10$.

Answer: 26

108. A box contains 48 candies shared equally among 8 children. How many candies each?

Answer: 6 candies

109. What is 30% of 300?

Answer: 90

110. If a car travels 60 km in 1 hour, how far in 3 hours?

Answer: 180 kilometers

111. Find the sum of the first five natural numbers.

Answer: 15

112. What is the area of a triangle with base 10 cm and height 6 cm?

Answer: 30 square centimeters

113. If a notebook costs 25 pesos, how much will 8 notebooks cost?

Answer: 200 pesos

114. What is the difference between 500 and 278?

Answer: 222

115. A square has an area of 64 cm^2 . What is the length of one side?

Answer: 8 centimeters

116. Solve: $4x = 80$

Answer: $x = 20$

117. What is the total of 7, 14, and 21?

Answer: 42

118. If you buy 3 shirts at 350 pesos each, how much is the total cost?

Answer: 1050 pesos

119. What is the average of 10, 20, and 30?



Answer: 20

120. If a triangle has angles 50° and 60° , what is the third angle?

Answer: 70 degrees

