

CMAT Mock Test

Quantitative Techniques & Data Interpretation

1. What is the value of $72-527^2 - 5^272-52$?
- a) 24
 - b) 39
 - c) 44
 - d) 48

Answer: a) 24

Explanation:

$$72-52=49-25=247^2 - 5^2 = 49 - 25 = 2472-52=49-25=24$$

2. If a car travels 60 km in 1 hour and 15 minutes, what is its speed in km/hr?
- a) 48 km/hr
 - b) 50 km/hr
 - c) 60 km/hr
 - d) 75 km/hr

Answer: b) 48 km/hr

Explanation: 1 hour 15 minutes = 1.25 hours. Speed = Distance / Time = $60 \div 1.25 = 48$ km/hr.

3. Solve for x if $3x+7=22$
- a) 3
 - b) 5
 - c) 6
 - d) 7

Answer: b) 5

Explanation: $3x+7=22$
 $3x=22-7$
 $3x=15$
 $x=5$

4. What is the median of the data set: 12, 15, 18, 20, 25?
- a) 15
 - b) 18
 - c) 20

- d) 25

Answer: b) 18

Explanation: The median is the middle value in an ordered data set.

5. A shopkeeper gives a discount of 20% on an item costing \$500. What is the sale price?
- a) \$400
 - b) \$420
 - c) \$450
 - d) \$480

Answer: a) \$400

Explanation: Discount = 20% of \$500 = \$100. Sale price = \$500 - \$100 = \$400.

6. If a rectangle has a length of 10 cm and a width of 5 cm, what is its area?
- a) 25 cm²
 - b) 50 cm²
 - c) 75 cm²
 - d) 100 cm²

Answer: b) 50 cm²

Explanation: Area = Length × Width = 10 × 5 = 50 cm².

7. A train travels 150 km in 2.5 hours. What is its average speed?
- a) 50 km/hr
 - b) 60 km/hr
 - c) 75 km/hr
 - d) 90 km/hr

Answer: c) 75 km/hr

Explanation: Speed = Distance / Time = $150 \div 2.5 = 75$ km/hr.

8. Solve for x if $2x+5=8$
- a) 10
 - b) 16
 - c) 20
 - d) 40

Answer: c) 20

Explanation: $2x=40$
Therefore, $x=20$

9. **The average of 5 numbers is 20. What is the sum of these numbers?**

- a) 80
- b) 90
- c) 100
- d) 110

Answer: a) 100

Explanation: Sum = Average ×
Number of Values = $20 \times 5 = 100$.

10. **If the circumference of a circle is 44 cm, what is its radius? (Use $\pi \approx 3.14$)**

- a) 7 cm
- b) 14 cm
- c) 22 cm
- d) 28 cm

Answer: a) 7 cm

Explanation: Circumference = $2\pi r$. Therefore,
 $44 = 2 \times 3.14 \times r$
 $r = \frac{44}{2 \times 3.14} \approx 7$ cm.

Logical Reasoning

11. **If "PENCIL" is coded as "QFDMJ", how is "ERASER" coded?**

- a) FSBTF
- b) FSBTFS
- c) FSBTFQ
- d) FSBTFR

Answer: b) FSBTFS

Explanation: Each letter is shifted one place forward in the alphabet (E → F, R → S, etc.).

12. **Find the odd one out: 2, 5, 8, 11, 14.**

- a) 2

- b) 5
- c) 8
- d) 14

Answer: a) 2

Explanation: All other numbers are odd numbers, while 2 is even.

13. **If in a certain language, "SUN" is coded as "TVO", what is the code for "MOON"?**

- a) NPPP
- b) NPPQ
- c) NQOQ
- d) OPPQ

Answer: a) NPPP

Explanation: Each letter is shifted one place forward (M → N, O → P).

14. **In a group of 60 people, 20 are teachers, 25 are engineers, and 15 are both teachers and engineers. How many people are neither teachers nor engineers?**

- a) 5
- b) 10
- c) 15
- d) 20

Answer: b) 10

Explanation: Total = 20 + 25 - 15 = 30. Therefore, neither = 60 - 30 = 30.

15. **A clock shows the time as 3:00 PM. What is the angle between the hour and minute hands?**

- a) 90 degrees
- b) 180 degrees
- c) 270 degrees
- d) 360 degrees

Answer: a) 90 degrees

Explanation: At 3:00 PM, the hour hand is at 3 and the minute hand is at 12, forming a 90-degree angle.

16. If AAA is taller than BBB, and BBB is shorter than CCC, which of the following must be true?

- a) AAA is taller than CCC
- b) CCC is taller than AAA
- c) AAA is shorter than CCC
- d) BBB is taller than CCC

Answer: c) AAA is shorter than CCC

Explanation: If AAA is taller than BBB and BBB is shorter than CCC, then AAA must be shorter than CCC.

17. In a sequence of numbers 2, 6, 12, 20, what is the next number?

- a) 30
- b) 32
- c) 34
- d) 36

Answer: b) 30

Explanation: The sequence follows the pattern $n(n+1)$, so the next term is $5 \times 6 = 30$.

18. If all roses are flowers and some flowers fade quickly, which of the following must be true?

- a) Some roses fade quickly
- b) All flowers are roses
- c) Some roses do not fade quickly
- d) Some roses are not flowers

Answer: c) Some roses do not fade quickly

Explanation: Since only some flowers fade quickly, it cannot be true that all roses fade quickly.

19. Which of the following numbers is the smallest?

- a) 0.5

- b) 0.05
- c) 0.005
- d) 0.0005

Answer: d) 0.0005

Explanation: The smallest value is 0.0005.

20. If two people can complete a task in 10 days, how long will it take 5 people to complete the same task assuming the work rate is constant?

- a) 2 days
- b) 4 days
- c) 5 days
- d) 20 days

Answer: b) 4 days

Explanation: If 2 people take 10 days, then 1 person would take 20 days. Thus, 5 people will take $20 \div 5 = 4$ days.

Language Comprehension

21. Choose the synonym of "ABATE":

- a) Increase
- b) Lessen
- c) Intensify
- d) Elevate

Answer: b) Lessen

Explanation: "Abate" means to lessen or reduce.

22. Choose the antonym of "PERILOUS":

- a) Dangerous
- b) Safe
- c) Risky
- d) Hazardous

Answer: b) Safe

Explanation: "Perilous" means dangerous, so the antonym is "safe."

23. Find the error in the sentence:

“Each of the students have completed their assignments.”

- a) Each
- b) Have
- c) Their
- d) Assignments

Answer: b) Have

Explanation: “Each” requires a singular verb, so it should be “has” instead of “have.”

24. Complete the sentence: **“Despite the rain, the event went on as _____.”**

- a) Plan
- b) Planned
- c) Plans
- d) Planed

Answer: b) Planned

Explanation: The correct form is “planned,” indicating the event went as scheduled.

25. Identify the best word to complete the sentence: **“Her performance was _____ and won her many accolades.”**

- a) Mediocre
- b) Outstanding
- c) Average
- d) Poor

Answer: b) Outstanding

Explanation: “Outstanding” best fits the context of receiving accolades.

26. Which sentence is grammatically correct?

- a) She don’t like pizza.
- b) She doesn’t like pizza.
- c) She didn’t like pizza.
- d) She don’t likes pizza.

Answer: b) She doesn’t like pizza.

Explanation: The correct form for present tense is “doesn’t.”

27. Find the word that is similar in meaning to **“INFLUENTIAL”**:

- a) Powerless
- b) Influential
- c) Powerful
- d) Insignificant

Answer: c) Powerful

Explanation: “Influential” means having a lot of power or effect.

28. Select the best meaning of the idiom **“Break the ice”**:

- a) To end a relationship
- b) To start a conversation
- c) To solve a problem
- d) To start a new project

Answer: b) To start a conversation

Explanation: “Break the ice” means to ease tension and start a conversation.

29. Choose the word that best completes the sentence: **“He was the _____ of the company.”**

- a) Chief
- b) Leader
- c) Chairman
- d) Employee

Answer: c) Chairman

Explanation: “Chairman” is the title that best fits the context of being the head of a company.

30. Select the antonym for **“GARRULOUS”**:

- a) Talkative
- b) Silent
- c) Verbose
- d) Chatty

Answer: b) Silent

Explanation: “Garrulous” means

talkative, so the opposite is “silent.”

General Awareness

31. Who is the current Prime Minister of India? (As of 2024)

- a) Manmohan Singh
- b) Narendra Modi
- c) Rahul Gandhi
- d) Arvind Kejriwal

Answer: b) Narendra Modi

Explanation: Narendra Modi is the current Prime Minister of India.

32. Which planet is known as the “Red Planet”?

- a) Earth
- b) Venus
- c) Mars
- d) Jupiter

Answer: c) Mars

Explanation: Mars is called the “Red Planet” due to its reddish appearance.

33. What is the capital of Japan?

- a) Seoul
- b) Beijing
- c) Tokyo
- d) Hong Kong

Answer: c) Tokyo

Explanation: Tokyo is the capital city of Japan.

34. Who wrote the novel “To Kill a Mockingbird”?

- a) Harper Lee
- b) Mark Twain
- c) Ernest Hemingway
- d) F. Scott Fitzgerald

Answer: a) Harper Lee

Explanation: “To Kill a Mockingbird” was written by Harper Lee.

35. Which country is famous for the Eiffel Tower?

- a) Italy
- b) France
- c) Spain
- d) Germany

Answer: b) France

Explanation: The Eiffel Tower is located in Paris, France.

36. In which year did India gain independence from British rule?

- a) 1942
- b) 1947
- c) 1950
- d) 1952

Answer: b) 1947

Explanation: India gained independence on August 15, 1947.

37. What is the largest organ in the human body?

- a) Heart
- b) Liver
- c) Skin
- d) Brain

Answer: c) Skin

Explanation: The skin is the largest organ of the human body.

38. Which is the smallest continent by land area?

- a) Africa
- b) Europe
- c) Australia
- d) Antarctica

Answer: c) Australia

Explanation: Australia is the smallest continent by land area.

39. Who is known as the “Father of the Nation” in India?

- a) Jawaharlal Nehru
- b) Bhagat Singh
- c) Mahatma Gandhi

- d) Subhash Chandra Bose

Answer: c) Mahatma Gandhi

Explanation: Mahatma Gandhi is referred to as the “Father of the Nation” in India.

40. Which element has the chemical symbol ‘O’?

- a) Gold
- b) Oxygen
- c) Osmium
- d) Osmium

Answer: b) Oxygen

Explanation: The chemical symbol for oxygen is ‘O’.

Critical Thinking

41. If a book costs \$25 and is sold at a 10% discount, what is the sale price?

- a) \$20
- b) \$22.50
- c) \$23
- d) \$25.50

Answer: b) \$22.50

Explanation: Discount = 10% of \$25 = \$2.50. Sale price = \$25 - \$2.50 = \$22.50.

42. A factory produces 100 units of product A and 200 units of product B. If the cost of production per unit of A is \$4 and of B is \$6, what is the total production cost?

- a) \$800
- b) \$900
- c) \$1000
- d) \$1200

Answer: b) \$1000

Explanation: Total cost = $(100 \times \$4) + (200 \times \$6) = \$400 + \$1200 = \$1600$.

43. If the ratio of A to B is 3:4 and B to C is 5:6, what is the ratio of A to C?

- a) 1:2
- b) 3:5
- c) 9:10
- d) 5:6

Answer: c) 9:10

Explanation: Convert ratios to a common base to find A

ratio = 9:10.

44. A person invests \$1000 at an interest rate of 5% per annum. What will be the amount after 3 years if the interest is simple?

- a) \$1150
- b) \$1200
- c) \$1250
- d) \$1300

Answer: b) \$1150

Explanation: Simple Interest = $P \times R \times TP \div 100$
 $100 = 1000 \times 5 \times 3 \div 100 = \$150$.
 Total amount = \$1000 + \$150 = \$1150.

45. If a rectangle’s length is doubled and the width remains the same, how does its area change?

- a) It doubles
- b) It triples
- c) It quadruples
- d) It remains the same

Answer: a) It doubles

Explanation: Doubling the length of a rectangle while keeping the width the same doubles the area.

46. A bus travels 180 km in 3 hours. What is its average speed in km/hr?

- a) 50 km/hr
- b) 60 km/hr

- c) 70 km/hr
- d) 90 km/hr

Answer: b) 60 km/hr

Explanation: Speed = Distance / Time = $180 \div 3 = 60$ km/hr.

47. If you roll a fair die, what is the probability of rolling a number less than 4?

- a) $\frac{1}{6}$
- b) $\frac{1}{3}$
- c) $\frac{1}{2}$
- d) $\frac{2}{3}$

Answer: d) $\frac{2}{3}$

Explanation: Numbers less than 4 are 1, 2, and 3, so there are 3 favorable outcomes out of 6 possible outcomes.

48. In a bag of 10 marbles, 4 are red, 3 are blue, and 3 are green. What is the probability of picking a red marble?

- a) $\frac{1}{5}$
- b) $\frac{2}{5}$
- c) $\frac{1}{2}$
- d) $\frac{4}{10}$

Answer: b) $\frac{2}{5}$

Explanation: Probability = Number of favorable outcomes / Total outcomes = $\frac{4}{10} = \frac{2}{5}$.

49. If a box contains 12 white and 8 black balls, what is the probability of drawing a white ball?

- a) $\frac{2}{5}$
- b) $\frac{3}{5}$
- c) $\frac{4}{5}$
- d) $\frac{5}{8}$

Answer: b) $\frac{3}{5}$

Explanation: Probability =

Number of white balls / Total number of balls = $\frac{12}{20} = \frac{3}{5}$.

50. If a man walks 10 km north and then 6 km east, how far is he from his starting point?

- a) 10 km
- b) 12 km
- c) 14 km
- d) 16 km

Answer: b) 12 km

Explanation: Use the Pythagorean theorem:

$10^2 + 6^2 = 100 + 36 = 136 \approx 12 \sqrt{10^2 + 6^2} = \sqrt{100 + 36} = \sqrt{136} \approx 12$ km.

General Knowledge

51. Which country is the largest by land area?

- a) United States
- b) Canada
- c) Russia
- d) China

Answer: c) Russia

Explanation: Russia is the largest country by land area.

52. What is the smallest prime number?

- a) 1
- b) 2
- c) 3
- d) 5

Answer: b) 2

Explanation: 2 is the smallest prime number and the only even prime number.

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

- a) Oxygen

- b) Nitrogen
- c) Carbon Dioxide
- d) Argon

Answer: b) Nitrogen

Explanation: Nitrogen makes up about 78% of Earth's atmosphere.

54. Who discovered the theory of relativity?

- a) Isaac Newton
- b) Albert Einstein
- c) Galileo Galilei
- d) Nikola Tesla

Answer: b) Albert Einstein

Explanation: Albert Einstein developed the theory of relativity.

55. What is the capital of Australia?

- a) Sydney
- b) Melbourne
- c) Canberra
- d) Brisbane

Answer: c) Canberra

Explanation: Canberra is the capital city of Australia.

56. What is the chemical formula for table salt?

- a) NaCl
- b) KCl
- c) CaCl₂
- d) Na₂SO₄

Answer: a) NaCl

Explanation: The chemical formula for table salt is sodium chloride (NaCl).

57. Who wrote the play "Romeo and Juliet"?

- a) William Shakespeare
- b) Charles Dickens
- c) George Bernard Shaw
- d) John Milton

Answer: a) William Shakespeare

Explanation: "Romeo and Juliet" was written by William Shakespeare.

58. What is the boiling point of water in Celsius?

- a) 0°C
- b) 50°C
- c) 100°C
- d) 150°C

Answer: c) 100°C

Explanation: Water boils at 100°C under standard atmospheric pressure.

59. Who painted the Mona Lisa?

- a) Vincent Van Gogh
- b) Claude Monet
- c) Leonardo da Vinci
- d) Pablo Picasso

Answer: c) Leonardo da Vinci

Explanation: The Mona Lisa was painted by Leonardo da Vinci.

60. Which ocean is the largest?

- a) Atlantic Ocean
- b) Indian Ocean
- c) Pacific Ocean
- d) Arctic Ocean

Answer: c) Pacific Ocean

Explanation: The Pacific Ocean is the largest and deepest ocean.

Current Affairs

61. Which country hosted the 2024 Summer Olympics?

- a) Japan
- b) France
- c) USA
- d) Australia

Answer: b) France

Explanation: Paris, France, hosted the 2024 Summer Olympics.

62. **Who is the current Secretary-General of the United Nations?**

- a) Kofi Annan
- b) Ban Ki-moon
- c) António Guterres
- d) Javier Pérez de Cuéllar

Answer: c) António Guterres

Explanation: António Guterres is the current Secretary-General of the UN.

63. **Which tech company acquired LinkedIn in 2016?**

- a) Microsoft
- b) Google
- c) Apple
- d) Amazon

Answer: a) Microsoft

Explanation: Microsoft acquired LinkedIn in 2016.

64. **What is the name of the spacecraft that landed on Mars in 2021?**

- a) Curiosity
- b) Perseverance
- c) Opportunity
- d) Spirit

Answer: b) Perseverance

Explanation: The Perseverance rover landed on Mars in 2021.

65. **Which country recently announced plans to establish a permanent base on the Moon?**

- a) USA
- b) Russia
- c) China
- d) India

Answer: c) China

Explanation: China has announced plans to establish a permanent base on the Moon.

66. **What is the name of the largest social media platform as of 2024?**

- a) Twitter
- b) Instagram
- c) Facebook
- d) TikTok

Answer: d) TikTok

Explanation: TikTok has become the largest social media platform in recent times.

67. **Which country is known for hosting the annual “Davos Forum”?**

- a) Switzerland
- b) Germany
- c) France
- d) Austria

Answer: a) Switzerland

Explanation: The annual “Davos Forum” or World Economic Forum is held in Switzerland.

68. **Who is the author of the bestselling book “Becoming” published in 2018?**

- a) Michelle Obama
- b) Oprah Winfrey
- c) J.K. Rowling
- d) Hillary Clinton

Answer: a) Michelle Obama

Explanation: “Becoming” is an autobiography by Michelle Obama.

69. **Which country recently hosted the 2022 FIFA World Cup?**

- a) Qatar
- b) Russia
- c) Brazil
- d) USA

Answer: a) Qatar

Explanation: Qatar hosted the FIFA World Cup in 2022.

70. **What is the name of the NASA mission aiming to study the Sun's outer atmosphere?**

- a) Voyager
- b) Hubble
- c) Parker Solar Probe
- d) James Webb

Answer: c) Parker Solar Probe

Explanation: The Parker Solar Probe mission is designed to study the Sun's outer atmosphere.

Verbal Reasoning

71. **Complete the analogy: Book is to Reading as Fork is to _____.**

- a) Drawing
- b) Writing
- c) Eating
- d) Cooking

Answer: c) Eating

Explanation: Just as a book is used for reading, a fork is used for eating.

72. **Find the word that does not belong: A) Dog B) Cat C) Lion D) Car**

- a) Dog
- b) Cat
- c) Lion
- d) Car

Answer: d) Car

Explanation: Car is not an animal; it does not belong in the group of animals.

73. **Choose the word that best fits the sentence: "Her decision to leave was _____, but everyone respected her choice."**

- a) Unfortunate
- b) Wise
- c) Stubborn
- d) Illogical

Answer: a) Unfortunate

Explanation: The word "unfortunate" fits the context of the decision being regrettable but respected.

74. **Complete the sentence: "The new policy is designed to _____ the efficiency of the workflow."**

- a) Decrease
- b) Enhance
- c) Ignore
- d) Complicate

Answer: b) Enhance

Explanation: "Enhance" means to improve or increase, which fits the context of increasing efficiency.

75. **Choose the best word to complete the sentence: "The company aims to _____ its customer service to better meet client needs."**

- a) Degrade
- b) Maintain
- c) Improve
- d) Reduce

Answer: c) Improve

Explanation: The company aims to "improve" its customer service.

76. **What is the missing number in the sequence: 2, 6, 12, 20, ____?**

- a) 30
- b) 28
- c) 32
- d) 36

Answer: b) 30

Explanation: The sequence adds consecutive even numbers: 4, 6, 8, 10.

77. **Complete the analogy: Hard is to Soft as Hot is to _____.**

- a) Cold
- b) Warm

- c) Heavy
- d) Light

Answer: a) Cold

Explanation: “Hot” and “Cold” are opposites, just as “Hard” and “Soft” are opposites.

78. **Choose the best answer: “If all roses are flowers and some flowers fade quickly, then which of the following is true?”**

- a) All roses fade quickly.
- b) Some roses fade quickly.
- c) No roses fade quickly.
- d) Some roses are not flowers.

Answer: b) Some roses fade quickly.

Explanation: Some flowers (including roses) fade quickly, so some roses may also fade quickly.

79. **What comes next in the series: 5, 10, 20, 40, ____?**

- a) 60
- b) 70
- c) 80
- d) 100

Answer: c) 80

Explanation: Each number in the series is multiplied by 2.

80. **Complete the analogy: Chef is to Cook as Author is to _____.**

- a) Write
- b) Read
- c) Edit
- d) Illustrate

Answer: a) Write

Explanation: A chef cooks, and an author writes.

81. **If all roses are flowers and some flowers are not red, which of the following is true?**

- a) All roses are not red.
- b) Some roses are red.
- c) Some flowers are roses.
- d) No roses are red.

Answer: b) Some roses are red.

Explanation: Some flowers are not red, but it does not imply that all roses are not red; some roses could still be red.

82. **If five cats can catch five mice in five minutes, how many mice can ten cats catch in ten minutes?**

- a) 10
- b) 20
- c) 50
- d) 100

Answer: b) 20

Explanation: If five cats catch five mice in five minutes, ten cats can catch ten mice in five minutes, so in ten minutes, they can catch 20 mice.

83. **Find the missing number in the series: 1, 4, 9, 16, 25, ____?**

- a) 30
- b) 36
- c) 40
- d) 45

Answer: b) 36

Explanation: The series consists of perfect squares:

1, 2², 3², 4², 5², 6², 7², 8², 9², 10², 11², 12², 13², 14², 15², 16², 17², 18², 19², 20², 21², 22², 23², 24², 25², 26², 27², 28², 29², 30², 31², 32², 33², 34², 35², 36², 37², 38², 39², 40², 41², 42², 43², 44², 45², 46², 47², 48², 49², 50², 51², 52², 53², 54², 55², 56², 57², 58², 59², 60², 61², 62², 63², 64², 65², 66², 67², 68², 69², 70², 71², 72², 73², 74², 75², 76², 77², 78², 79², 80², 81², 82², 83², 84², 85², 86², 87², 88², 89², 90², 91², 92², 93², 94², 95², 96², 97², 98², 99², 100²

84. **In a group of 60 people, 20 are engineers and 30 are doctors. If 10 people are both engineers and doctors, how many people are neither engineers nor doctors?**

- a) 10
- b) 20
- c) 30
- d) 40

Answer: a) 10

Explanation: Total = 60;
Engineers or Doctors = $20 + 30 - 10 = 40$. Neither = $60 - 40 = 20$.

85. If A is the father of B and B is the mother of C, what is the relation of A to C?

- a) Grandfather
- b) Father
- c) Uncle
- d) Brother

Answer: a) Grandfather

Explanation: A is the father of B, and B is the mother of C, so A is the grandfather of C.

86. What is the next number in the sequence: 7, 14, 28, 56, ____?

- a) 70
- b) 84
- c) 112
- d) 140

Answer: c) 112

Explanation: Each number in the sequence is doubled from the previous one.

87. If the day before yesterday was Friday, what day will it be in three days?

- a) Monday
- b) Tuesday
- c) Wednesday
- d) Thursday

Answer: c) Wednesday

Explanation: If the day before yesterday was Friday, then today is Sunday. Three days from Sunday is Wednesday.

88. In a certain code, "CAT" is written as "DBU". How is "DOG" written in the same code?

- a) EPJ

- b) EQH
- c) DPH
- d) EPH

Answer: a) EPJ

Explanation: Each letter is shifted by one position in the alphabet: C->D, A->B, T->U.

89. If a man is 24 years old in 2004, how old will he be in 2024?

- a) 40
- b) 44
- c) 50
- d) 64

Answer: b) 44

Explanation: The difference between 2024 and 2004 is 20 years. Adding 20 years to 24 gives 44.

90. If in a certain code "MANGO" is written as "NBNHP", how is "APPLE" written in that code?

- a) BQQMF
- b) BQQNG
- c) AQOFD
- d) BQQKF

Answer: a) BQQMF

Explanation: Each letter is shifted by one position in the alphabet.

Data Interpretation

91. A pie chart shows that 20% of a company's budget is allocated to marketing, and the total budget is \$500,000. How much is allocated to marketing?

- a) \$50,000
- b) \$75,000
- c) \$100,000
- d) \$150,000

Answer: c) \$100,000

Explanation: 20% of \$500,000 is $0.20 \times 500,000 = 100,000$.

$$500,000 = 100,000 \times 5 = 500,000$$

92. In a survey, 30% of the 200 participants prefer tea over coffee. How many participants prefer tea?

- a) 50
- b) 60
- c) 70
- d) 80

Answer: b) 60

Explanation: 30% of 200 is $0.30 \times 200 = 60$.

93. If a company's sales increased from \$200,000 to \$250,000, what is the percentage increase?

- a) 20%
- b) 25%
- c) 30%
- d) 35%

Answer: b) 25%

Explanation: Percentage increase = $\frac{250,000 - 200,000}{200,000} \times 100 = 25\%$

94. A car travels 180 km in 3 hours. What is the average speed in km/hr?

- a) 50 km/hr
- b) 60 km/hr
- c) 70 km/hr
- d) 90 km/hr

Answer: b) 60 km/hr

Explanation: Average speed = $\frac{\text{Distance}}{\text{Time}} = \frac{180}{3} = 60$ km/hr.

95. If a rectangular garden has a length of 20 meters and a width of 15 meters, what is its area?

- a) 250 sq meters
- b) 300 sq meters
- c) 350 sq meters
- d) 400 sq meters

Answer: b) 300 sq meters

Explanation: Area = Length $\times$ Width = $20 \times 15 = 300$ sq meters.

96. A shopkeeper sold 50 items for \$5 each and 30 items for \$7 each. What is the total revenue?

- a) \$350
- b) \$400
- c) \$450
- d) \$500

Answer: c) \$450

Explanation: Revenue = $(50 \times \$5) + (30 \times \$7) = \$250 + \$210 = \$460$.

97. If a person earns \$2,500 per month and spends \$1,800 per month, what is the savings percentage?

- a) 20%
- b) 25%
- c) 28%
- d) 30%

Answer: b) 28%

Explanation: Savings = $\$2,500 - \$1,800 = \$700$. Percentage savings = $\frac{700}{2,500} \times 100 = 28\%$.

98. If a stock price rises from \$80 to \$100, what is the percentage increase?

- a) 20%
- b) 25%
- c) 30%
- d) 35%

Answer: b) 25%

Explanation: Percentage increase
 $= \frac{100 - 80}{80} \times 100 = 25\%$
 $\frac{100 - 80}{80} \times 100 = 25\%$

99. **A student scored 85 out of 100 in an exam. What is the percentage score?**

- a) 80%
- b) 85%
- c) 90%
- d) 95%

Answer: b) 85%

Explanation: Percentage score =
 $\frac{85}{100} \times 100 = 85\%$
 $\frac{85}{100} \times 100 = 85\%$

100. **In a class of 40 students, 25 students passed an exam. What is the percentage of students who passed? - a) 60% - b) 65% - c) 70% - d) 75%**

Answer :

d) 75%