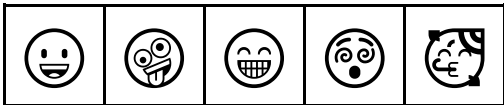




ASET/GATE Quantitative Reasoning 2

Student Name _____ Date ___ / ___ / ___

How am I feeling today?



Checked By

Remark for student

Scenario 1: Table: Decrease in Population of Australian Animals Over the Last Decade

Due to various environmental challenges, the populations of some native Australian animals have been decreasing over the past decade. Conservationists have been monitoring five species closely: the Koala, the Tasmanian Devil, the Wombat, the Quokka, and the Platypus.

| Australian Animal | Population in 2014 | Population in 2024 | Percentage Decrease |
|-------------------|--------------------|--------------------|---------------------|
| Koala | 80,000 | 48,000 | 40% |
| Tasmanian Devil | 25,000 | 15,000 | 40% |
| Wombat | 50,000 | 35,000 | 30% |
| Quokka | 15,000 | 9,000 | 40% |
| Platypus | 30,000 | 19,500 | 35% |

1. Which animal experienced the largest numerical decrease in population over the last decade?

- A) Wombat
- B) Tasmanian Devil
- C) Koala
- D) Platypus

2. If the current trends continue, and the Quokka's population decreases by the same percentage over the next decade, what will its population be in 2034?

- A) 5,400
- B) 3,600
- C) 5,850
- D) 4,500

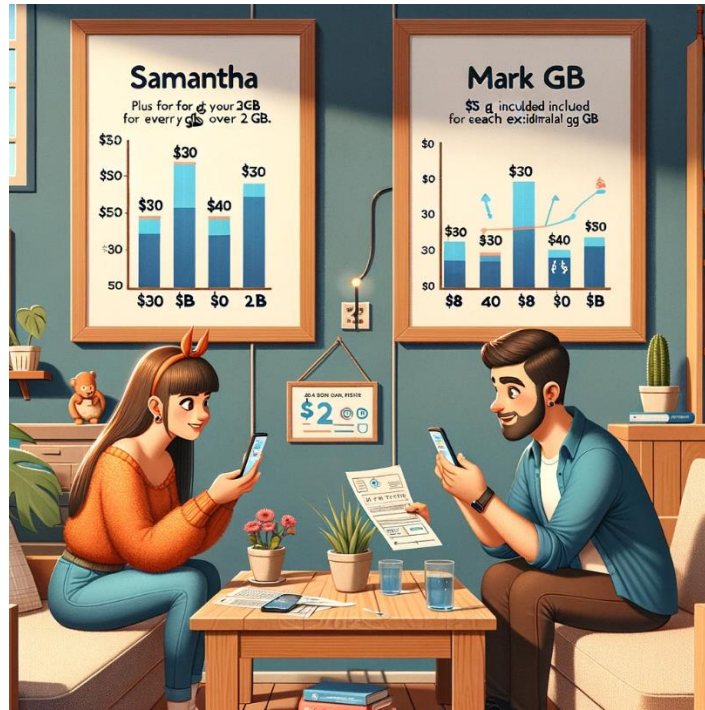
3. The Wombat and the Platypus combined made up a certain percentage of the total population in 2014. What was this percentage?

- A) 40%
- B) 50%
- C) 60%
- D) 80%

4. If conservation efforts are successful and the Koala's population increases by 20% from its 2024 numbers by 2034, what will be the new population count?

- A) 57,600
- B) 50,000
- C) 60,000
- D) 76,000

Scenario 2: Mobile Data



Samantha and Mark both have smartphones and are comparing their data usage for the month. Samantha's data plan charges her a fixed amount of \$30 per month, plus an additional \$5 for every gigabyte (GB) of data she uses beyond 2GB. Mark, on the other hand, has a different plan. He pays a fixed amount of \$40 per month but gets 3GB of data included. After that, he is charged \$8 for every additional gigabyte.

5. If Samantha used 5GB of data in a month, how much will she have to pay for her phone bill?

- A) \$35
- B) \$40
- C) \$45
- D) \$55

6. Mark used 6GB of data in a month. How much will his phone bill be?

- A) \$40
- B) \$56
- C) \$48
- D) \$64

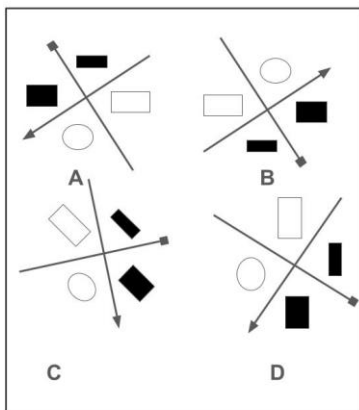
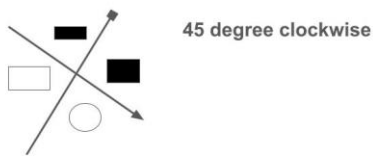
7. If A stands for +, B stands for -, C stands for x, then what is the value of $(10 C 4) A (4 C 4) B 6$?

- A) 46
- B) 50
- C) 55
- D) 60

8. There are five different houses, A to E in a row. A is to the right of B and E is to the left of C and right of A. B is to the right of D. Which of the houses is in the middle?

- (A) A
- (B) B
- (C) C
- (D) D

9. Which option above is the 2D representation of a dice based on an illustration?



10. Two numbers are each multiplied by themselves to give two new numbers. The difference between these two new numbers is 7 ; the difference between the two original numbers was one. What are the two numbers

- A: 1 , 2
- B: 2 , 3
- C: 3 , 4
- D: 4 , 5

Answer Key

1. **C) Koala**
2. **A) 5,400**
3. **A) 40%**
4. **A) 57,600**
5. **C) \$45**
6. **D) \$64**
7. **.B) 50**
8. **A) A**
9. **C)**
10. **C) 3, 4**