

1 . Answer: C

Explanation: The amount allocated to infrastructure is 30% of Php 100 000 000 (Php 30 000 000) while the amount allocated to Environmental preservation is 10% of Php 100 000 000 (Php 10 000 000). Thus, the amount allocated to infrastructure is Php 20 000 000 larger than the amount allocated to Environmental Preservation.

2. Answer: D

Explanation: Looking at the graph, it is noticeable that the profits of Alice's shop is larger by less than Php 10 000 as compared to the profits of Letty's shop in 2019. This is due to the fact that the vertical axis are in intervals of 10 000. Since, the profits of Letty's shop and Alice's shop are within the interval 430 000 to 440 000, then it is safe to assume that the profits of Alice's shop are larger by less than 10 000 but more than 5 000.

3. Answer: B

Explanation: Based on the line graph, the annual profit of Elite Inc. was Php 8 400 000 in 2018. Meanwhile, the annual profit of Elite Inc. was Php 8 350 000 in 2017. Thus, the annual profit of 2018 is larger by Php 50 000 as compared to the annual profit of 2017.

4. Answer: B

Explanation: In 2018, Company A's annual profit was Php 3 000 000. Meanwhile, Company B's annual profit was Php 2 500 000. Hence, Company A's annual profit was larger by Php 500 000 in 2018 as compared to Company B's annual profit in 2018.

5. Answer : C

Explanation: The allocated amount for education is 20% of Php 35 800 (Php 7160). Meanwhile, the allocated amount for food is 30% of Php 35 800 (Php 10 740).

6. Answer : C

Explanation: Based on the graph, factory C has an average of 30 cars produced for 12 months in 2019. Thus, factory C produced 360 ($30 \times 12 = 360$) cars in 2019. Meanwhile, factory A has an average of 25 cars produced for 12 months in 2018. Thus, factory A produced 300 ($25 \times 12 = 300$) cars in 2018.

Therefore, factory C produced $360 - 300 = 60$ more cars in 2019 as compared to the number of cars produced by factory A in 2018.

7. Answer: C

Explanation: The allocated amount for savings is 10% of Php 37 200 which is Php 3 720. Thus, the amount not saved is equal to $37\,200 - 3\,720 = \text{Php } 33\,480$.

8. Answer: D

Explanation: Based on the given graph, it is incorrect that City C performed better in 2018 as compared to 2019. City C has fewer average customers in 2018 as compared to 2019.

9. Answer: D

Explanation: The given line graph does not allow us to obtain an exact quantity for the average number of customers of Mel's shop in February and April. What we can obtain are estimates of the actual values. We can estimate that Mel obtained an average of 300 customers in February. Meanwhile, we can estimate that Mel obtained an average of 420 customers in April. Thus, we can estimate that the average number of customers increased by 120 from February to April.

120 is 40% of 300 $\frac{120}{300} = 0.4 \times 100 = 40\%$

Hence, the proper estimate is that there is an increase of between 40% to 50%.

10. Answer: A

Explanation: First, we need to determine what is the total annual budget of Downtown City in 2021. We know that Php 75 000 000 is allocated for Construction and Transportation which is 30% of the total budget. Hence, $\frac{75\,000\,000}{0.30} = 250\,000\,000$. Thus, the annual budget of Downtown City in 2021 is Php 250 000 000.

To find how much is allocated for Health: $250\,000\,000 \times 0.20 = \text{Php } 50\,000\,000$