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Semi Prime Numbers

A natural number that can be expressed as a product of two prime numbers is called **semi-prime** number.

For example, 77 is semi-prime since it is a product of two prime numbers, 7 and 11.

[Remember that 1 is not prime.]

Question 1. Find the smallest semi-prime number.

Question 2. Two consecutive numbers from 10 to 25 which are semi-prime _____.

- a) 20 and 21
- b) 14 and 15
- c) 15 and 16
- d) 22 and 23



Question 3. Two numbers are said to be co-prime if their HCF is 1. Match the Pair of numbers given in column X with their corresponding properties in Column Y by drawing lines.

Column X

Column Y

- A. (77, 33)
- B. (75, 88)
- C. (69, 77)
- D. (56, 63)

- 1. co primes as well as semi primes
- 2. Neither semiprime nor coprime
- 3. semiprime but not coprime
- 4. coprime but not semiprime

Restaurant Rating App

Zippy delivers food items from different restaurants through a mobile app in Zedland. Customers can rate the food on the basis of taste and cost on a 5-star rating system via the app.

Zippy collates the number of deliveries per week and customers ratings to decide whether the restaurant is at risk of getting deactivated from the Zippy system.

Zippy app follows the following criteria:

- a) In a week, if the minimum number of deliveries are 50 and at least 30 deliveries are of 5-star rating, then the restaurant is considered to be above average.
- b) In a week, if the minimum number of deliveries are 40 and at least 30 deliveries are of 4 -star or 5 -star rating, then the restaurant is considered to be average.
- c) In a week, if the minimum number of deliveries are 30 and at most 15 deliveries are 3 -star rating or below, then the restaurant is considered to be below average.

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- d) Any restaurant which does not meet any of the above mentioned criteria is at the risk of being deactivated from the system.

Question 4. “World On My Plate” a restaurant run by Ms. Ravinder Kaur in Zedland is a new entrant to the Zippy mobile app.

Following table shows the number of deliveries made by the restaurant from Monday to Saturday in a given week.

Number of deliveries (Monday to Saturday)	Rating
22	5 stars
14	4 stars
3	3 stars
1	2 stars

Which category is the restaurant “world on my plate” in on Saturday?

- a) Above Average
- b) Average
- c) Below Average.
- d) At risk of being deactivated

Question 5. Ravinder has only Sunday to upgrade her restaurant to the next higher level. What is the minimum number of deliveries she should do? what kind of ratings does she require for Sunday deliveries?

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Scoring Key

Semi Prime Numbers

Context: Scientific

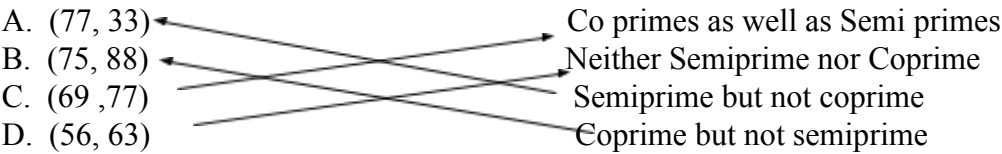
Content Category: Quantity

1. 4 (2×2) is the smallest semi prime number.

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2. b) 14 and 15 ($14 = 2 \times 7$, $15 = 3 \times 5$)

3. Column X Column Y



Restaurant Rating App
Context: Occupational
Context Category: Quantity

4. b) Average as the total number of deliveries are 40($22 + 14 + 3+1 = 40$)
and number of 4-star and 5-star deliveries are 36($22 + 14$)

5. The restaurant is in the average category and wants to upgrade to next higher level that is above average. For which she requires **minimum number of deliveries as 10** ($50 – 40$) and **5-star rating deliveries only**.