

① (a)  
 $29 + 31 + 37 = 97$

How 5

② (b)

Boy is cousin of the girl.

How 9

③ (c)

outcomes

~~probability~~ -  $6^2 = 36$

probability - ①8

Possible numbers = 2, 4, 6, 8, 10, 12

| ②             | ④             | ⑥             | ⑧             | ⑩             |
|---------------|---------------|---------------|---------------|---------------|
| $1+1=2$       | $1+3=4$       | $1+5$         | $2+6$         | $5+5$         |
| 1 probability | $2+2=4$       | $2+4$         | $6+2$         | $6+4$         |
|               | $3+1=4$       | $4+2$         | $3+5$         | $4+6$         |
|               | ③ probability | $5+1$         | $5+3$         | ③ probability |
|               |               | $3+3$         | $4+4$         |               |
|               |               | ⑤ probability | ⑤ probability |               |

⑫  $\rightarrow 6+6 \rightarrow$  ①

So  $1+3+5+5+3+1 = 18$

Answer is 18

(4) (D)

visitors on sundays = 510

month start with sunday there are 5 sundays in month

$$= 5 \times 510 = 2550$$

visitors on other days = 240  
 $- 25 \times 240 = 6000$

$$\text{Total} = 2550 + 6000 = 8550$$

Average no of passenger on per day = ~~2850~~

285 is right answer (=285)

# Q NO 3 (D)

① 2, 3, 6, 4, 5, 20

3, 18

2, 3, 6, 4, 5, 2 6, 3, 18

②

1, 3, 9, 15, 25

49

1, 3, 9, 15, 25 21, 49

③

2, 7, 10, 22, 18, 37, 26

2, 7, 10, 22, 18, 37, 26 52

④

34, 7, 37, 14, 40, 28, 43,

Answer

34, 7, 37, 14, 40, 28, 43, 35

⑤

5, 5, 7, 11 17, 19

5, 5, 7, 11, 13, 17, 19

(A)

$$A \text{ work in } = 15 \text{ days} = \frac{1}{15}$$

$$B \text{ work in } = 20 \text{ days} = \frac{1}{20}$$

$$\text{Total} = \frac{1}{15} + \frac{1}{20} = \frac{4+3}{60} = \frac{7}{60}$$

Together work = 4 days

$$4 \times \frac{7}{60} = \frac{28}{60} = \frac{7}{15}$$

$$\text{Remaining} = 1 - \text{work} \\ = 1 - \frac{7}{15} = \frac{15-7}{15}$$

$$\frac{15-7}{15} = \frac{8}{15}$$

$$= \frac{8}{15}$$

4

8/15

(C)

average weight of A, B and C  
= 45 kg

$$A+B+C = 45+45+45 = \del{135} \text{ kg}$$

↳ = 135 kg

Average weight of A and B  
= 40 kg

$$A+B = 40+40 = 80 \text{ kg}$$

Average weight of B and C  
= 43

$$B+C = 43+43 = 86 \text{ kg}$$

$$C = 135 - 80 = 55 \text{ kg}$$

$$B = B+C - C$$

$$B = 86 - 55$$

$$B = 31 \text{ kg}$$