

① (a)
 $29 + 31 + 37 = 97$

② (b)

Boy is cousin of the girl.

③ (c)

outcomes

~~probability~~ - $6 \times 2 = 36$

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	5+1	5+3	③
	probability	3+3	4+4	probability
		⑤ probability	⑤ probability	

⑫ → 6+6 → 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 = $\frac{8550}{30}$

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)

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

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

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

$$\text{Together work} = 4 \text{ days}$$

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

$$\begin{aligned} \text{Remaining} &= 1 - \text{work} \\ &= 1 - \frac{7}{15} = \frac{15-7}{15} \end{aligned}$$

$$\boxed{\frac{8}{15}}$$

(C)

average weight of A, B and C
= 45 kg

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

$\hookrightarrow = 135 \text{ kg}$

Average weight of A and B
= 40 kg

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

Average weight of B and C
= 43

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

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

$$B = B+C - C$$

$$B = 86 - 55$$

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