

- Both a and b vary directly such that when $a = 12$ b is 4. Which of the following can not be a possible pair of corresponding values of a and b respectively?
 (a) 5 and 15 (b) 6 and 2 (c) 27 and 9 (d) 144 and 48
- x varies directly with y such that $x = 15$ when $y = 36$. In which of the following options, the corresponding values of x and y are incorrect?
 (a) $x = 7, y = 16.8$ (b) $x = 16, y = 38.4$ (c) $x = 30, y = 75$ (d) $x = 25, y = 60$
- A machine takes 6 hours in filling 54 containers. Find the number of containers filled by it in 48 hours.
 (a) 404 (b) 388 (c) 432 (d) 424
- A recipe of muffins requires 1.5 cups of milk and 1 cup of chocolate. If Priya has 4 cups of chocolate, then she needs _____ cups of milk to make muffins.
 (a) 4.5 (b) 6 (c) 4.8 (d) 5.5
- A car is travelling at the average speed of 50km/hr. How much distance would it travel in 12 minutes?
 (a) 10km (b) 8km (c) 12km (d) 15km
- A man completes $\frac{1}{4}$ of a job in 5 days. At the same rate, number of more days needed for him to finish $\frac{3}{4}$ of the job is
 (a) 5 (b) 15 (c) 10 (d) 20
- A worker is paid ₹ 200 for 8 days work. If he works for 20 days, how much amount will he get?
 (a) ₹ 600 (b) ₹ 450 (c) ₹ 500 (d) ₹ 400
- A train travelling at a speed of 72km/hr crosses two tunnels in 15sec and 24sec respectively. If the length of second tunnel is 180m more than that of the first, then the length of second tunnel is
 (a) 300m (b) 480m (c) 180m (d) 120m
- If 17 stamps costs ₹ 23.80, then number of stamps that can be bought for ₹ 49 is
 (a) 50 (b) 51 (c) 34 (d) 35
- Shyamala types 480 words in half an hour. The number of words she could type in 6 minutes is
 (a) 192 (b) 96 (c) 48 (d) 120.
- In a library, 192 copies of a certain book require a shelf-length of 3.8 metres. How many copies of the same book would occupy a shelf-length of 5.7 metres?
 (a) 144 (b) 288 (c) 432 (d) 216
- An iron rod of length 16m weighs 36kg. The weight of similar rod of length 21m is
 (a) 47.25kg (c) 42.75kg (b) 42.5kg (d) 45.75kg

x	18	45	22.5	6
y	5	2	4	k

26. Both u and v vary directly with each other. When u is 10, v is 15, which of the following is not a possible pair of corresponding values of u and v ?

(a) 2 and 3 (b) 8 and 12 (c) 15 and 20 (d) 25 and 37.5

27. Assuming land to be uniformly fertile, the area of land and the yield on it vary

(a) directly with each other.
 (b) inversely with each other.
 (c) neither directly nor inversely with each other.
 (d) sometimes directly and sometimes inversely with each other.

28. A truck needs 54 litres of diesel for covering a distance of 297 km. The diesel required by the truck to cover a distance of 550 km is

(a) 100 litres (b) 50 litres (c) 25.16 litres (d) 25 litres

29. In which of the following case, do the quantities vary directly with each other?

(a)

x	0.5	2	8	32
y	2	8	32	128

(b)

p	1^2	2^2	3^2	4^2
q	1^3	2^3	3^3	4^3

(c)

r	2	5	10	25	50
s	25	10	5	2	0.5

(d)

u	2	4	6	9	12
v	18	9	6	4	3

30. Which quantities in the previous question vary inversely with each other?

(a) x and y (b) p and q (c) r and s (d) u and v

31. Both x and y are in direct proportion, then $\frac{1}{x}$ and $\frac{1}{y}$ are

(a) in direct proportion.
 (b) in inverse proportion.
 (c) neither in direct nor in inverse proportion.
 (d) sometimes in direct and sometimes in inverse proportion.

32. 100 persons had food provision for 24 days. If 20 persons left the place, the provision will last for

(a) 30 days (b) $\frac{96}{5}$ days (c) 120 days (d) 40 days

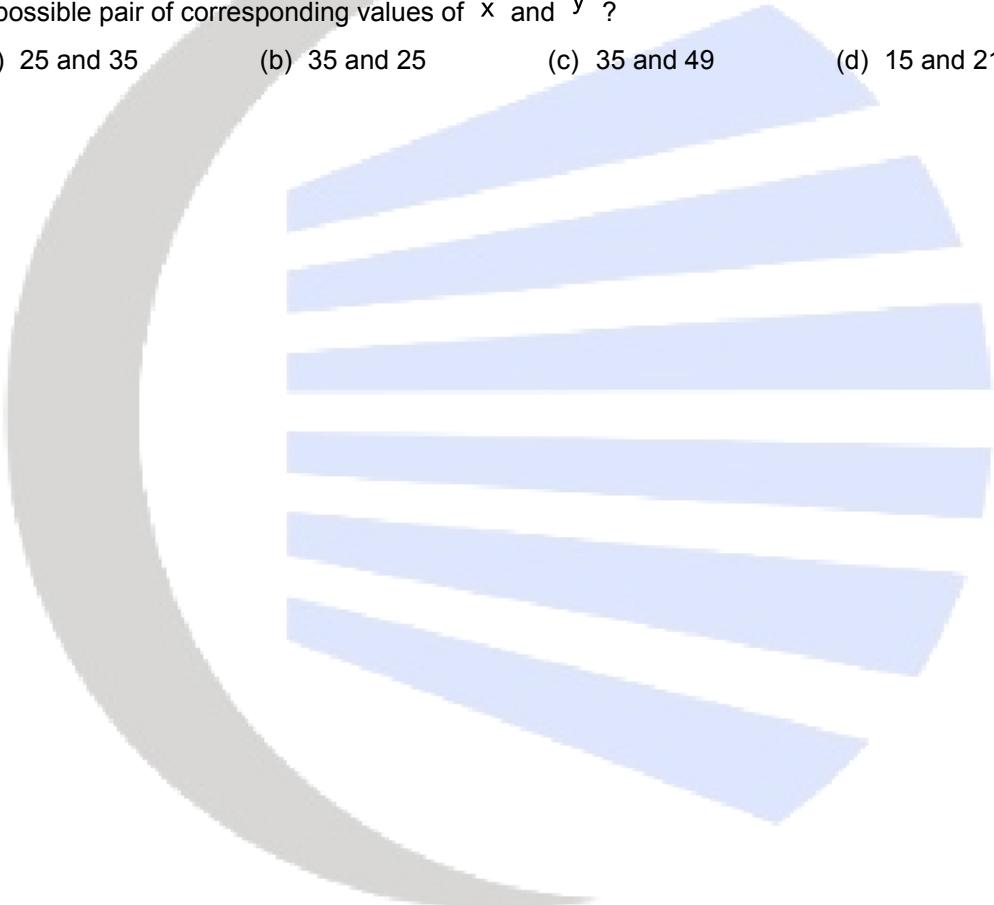
33. If two quantities p and q vary inversely with each other, then

(a) $\frac{p}{q}$ remains constant. (b) $p+q$ remains constant.

(c) $p \times q$ remains constant. (d) $p-q$ remains constant.

34. Both x and y vary directly with each other and when x is 10, y is 14, which of the following is not a possible pair of corresponding values of x and y ?

(a) 25 and 35 (b) 35 and 25 (c) 35 and 49 (d) 15 and 21



ANSWERS

1. A	2. C	3. C	4. B
5. A	6. C	7. C	8. B
9. D	10. B	11. B	12. A
13. B	14. B	15. B	16. C
17. D	18. A	19. C	20. A
21. B	22. C	23. B	24. A
25. C	26. C	27. A	28. A
29. A	30. D	31. A	32. A
33. C	34. B		

