

Refresher-4 (Cubes & cuboid, Directions, Time & work)

Q1. A is 60% more efficient than B therefore able to finish a piece of work in 40 days, in how many days B alone will complete the whole work?

- (a) 80 days (b) 64 days (c) 25 days (d) None of these

Q2. A can finish a piece of work in 20 days, while B can complete the same work in 30 days. In how many days the work will be completed if they work on alternate days starting with A?

- (a) 12 days (b) 24 days (c) 30 days (d) 60 days

Directions (3-5) : A cube is painted yellow on all faces is cut into 64 smaller cubes of equal sizes. Solve the following questions on the bases of given information:

Q3. Find the number of cubes with no face painted?

- (a) 4 (b) 8 (c) 12 (d) 20

Q4. Find the number of cubes with at least two faces painted?

- (a) 24 (b) 30 (c) 32 (d) None of these

Q5. Find the number of cubes with exactly two faces painted?

- (a) 16 (b) 24 (c) 32 (d) 8

Direction (6-7): Dev, Kumar, Nilesh, Ankur and Pintu are standing facing to the North in a playground such as given below:

1. Kumar is at 40 m to the right of Ankur.
2. Dev is at 60 m in the south of Kumar.
3. Nilesh is at a distance of 25 m in the west of Ankur.
4. Pintu is at a distance of 90 m in the North of Dev.

Q6. Which one is in the North-East of the person who is to the left of Kumar?

- (a) Dev (b) Nilesh (c) Ankur (d) Pintu

Q7. If a boy starting from Nilesh, met to Ankur and then to Kumar and after this he to Dev and then to Pintu and whole the time he walked in a straight line, then how much total distance did he cover?

- (a) 215 m (b) 155 m (c) 245 m (d) 185 m

Q8. What is the maximum number of identical pieces a cube can be cut into by 7 cuts?

- (a) 36 (b) 49 (c) 25 (d) 56

Q9. Two pipes A and B can fill a tank in 15 minutes and 20 minutes respectively. Both the pipes are opened together but after 4 minutes, pipe A is turned off. What is the total time required to fill the tank?

- (a) 10 min. 20 sec (b) 11 min. 45 sec (c) 12 min. 30 sec (d) 14 min. 40 sec

Directions (10-12): Study the information carefully and answer the questions accordingly.

Point N is 7m to the west of Point Y which is 8m to the south of Point S. Point N is 15m to the north of Point W and 10m to the west of Point C. Point A is 12m to the north of Point K which is 20m to the east of Point W. A is to the south of T which forms a straight line with Y.

Q10. N is at what distance and in which direction with respect to K?

- (a) 24m, North-West (b) 25m, North-West (c) 25m, North-East (d) 24m, East (e) 25m, North

Q11. If a person starts walking from N to K via Y, C, T, and A. How many meters will he walk?

- (a) 40m (b) 45m (c) 35m (d) 20m (e) 25m

Q12. S is at which direction from point K?

- (a) North East (b) North West (c) South East (d) South West (e) None of these

Q13. If one pipe A can fill a tank in 20 minutes, then 5 pipes, each of 20% efficiency of A, can fill the tank in:

- (a) 80 min (b) 100 min (c) 20 min (d) 25 min (e) None of these

Q14. 3 pumps, working 8 hours a day, can empty a tank in 2 days. How many hours a day must 4 pumps work to empty the tank in 1 day?

- (a) 9 (b) 10 (c) 11 (d) 12

Q15. If 7 spiders make 7 webs in 7 days, then 1 spider will make 1 web in how many days?

- (a) 1 (b) $7/2$ (c) 7 (d) 49

Q16. If either 24 men or 36 women can reap a field in 40 days, then 16 men and 16 women will reap the field in

- (a) 36 days (b) 16 days (c) 9 days (d) 8 days

Q17. If 9 binders bind 450 books in 15 days, how many binders will be required to bind 200 books in 10 days?

- (a) 5 (b) 8 (c) 6 (d) 7

Q18. 3 men and 6 boys can do a piece of work in 12 days; 4 men and 7 boys can do the same in 10 days. Then, 6 men and 6 boys can do three times the amount of this work in:

- (a) 18 days (b) 21 days (c) 24 days (d) 30 days

Q19. A certain number of men can finish a piece of work in 200 days. If, there were 20 men less, it would take 20 days more for the work to be finished. How many men were there originally?

- (a) 50 (b) 100 (c) 200 (d) 220

Q20. In a dairy farm, 30 cows eat 30 bags of husk in 50 days. In how many days will one cow eat one bag of husk?

- (a) 12.5 days (b) 25 days (c) 30 days (d) 45 days

Answer key

1	B	5	B	9	D	13	C	17	C
2	B	6	D	10	B	14	D	18	D
3	B	7	A	11	C	15	C	19	D
4	C	8	A	12	B	16	A	20	C