

Kerala PSC Maths Questions

1. If $1400x = 1050$, then what is the value of x ?

- A) 1
- B) $4/3$
- C) $4/7$
- D) $3/4$

Answer: D

$$x = 1050 / 1400 = 3/4$$

2. If 15 men can complete a work in 12 days, then how many men are required to complete the work in 60 days?

- A) 4
- B) 3
- C) 6
- D) 9

Answer: B

$$M_1 \times D_1 = M_2 \times D_2$$

$$15 \times 12 = M_2 \times 60$$

$$\text{i.e., } 15 \times 12 / 60 = 3$$

3. A person travels for 15 hours, the first half at 21 Km/ hr and the other half at 24 Km/hr. Find the distance travelled.

- A) 336 Km
- B) 346 Km
- C) 224 Km
- D) 285 Km

Answer: A

$$\text{Average speed} = 2XY / X + Y$$

$$\text{Avg. Speed} = 2 \times 21 \times 24 / 21 + 24 = 1008 / 45 = 22.4$$

Time: 15hrs

$$\text{Distance} = \text{Speed} \times \text{Time} = 22.4 \times 15 = 336 \text{ Km}$$

4. The distance covered by a man walking for 20 minutes at a speed of 6 km/hr is

A) 1.8 km

B) 3 Km

C) 2 Km

D) 1.5 Km

Answer: C

$$\text{Distance} = \text{Speed} \times \text{Time}$$

$$\text{Time} = 20 \text{ minutes i.e. } 20/60 \text{ hours}$$

$$\text{Therefore, } D = 6 \times 20/60 = 2$$

5. $\sqrt{162} / ? = ? / \sqrt{18}$

A) 62

B) 32

C) 45

D) 54

Answer: D

$$?^2 = \sqrt{81 \times 2} \times \sqrt{9 \times 2}$$

$$9 \times 3 \times 2 = 54$$

6. 28, 36, 22, 16, 48, 18, 23. Find the median of these numbers?

A) 28

B) 22

C) 23

D) 36

Answer: C

Write the given series in ascending order- 16, 18, 22, 23, 28, 36, 48. The middle number is 23.

7. If DELHI is coded as CDKHG, then what is the code of KOCHI?

- A) LMDGJ
- B) MQEJL
- C) JNBGH
- D) IMBGH

Answer: C

8. A person crosses 800m long street in 6 minutes. What is the approximate speed in kilometer per hour?

- A) 8 Km/ hr
- B) 6 Km/ hr
- C) 10 Km/ hr
- D) 9 Km/ hr

Answer: A

Distance = 800m = $800 / 1000$

Time = 6 minutes = $6 / 60$ hr

Speed = Distance / Time = $800 / 1000 \times 6 / 60 = 8$ Km / hr

9. The average age of 12 students is 20 years. If one more student is included, the average is decreased by 1. What is the age of a new student?

- A) 6 years
- B) 5 years
- C) 7 years
- D) 8 years

Answer: 7 years

Age of 12 students = $12 \times 20 = 240$

Average after adding new students' age = 19

Age of 13 students (including the new student)= $13 \times 19 = 247$

Therefore, the age of new student= $247-240= 7$ years

10. Find the odd one among the following:

A) 21

B) 51

C) 91

D) 31

Answer: D (Only Prime Number)

11. If Rs. 8000 is divided among three friends in the ratio 2:3:5, then what is the amount given to A?

A) 1500

B) 1600

C) 4000

D) 1800

Answer: B

12. The volume of a hemisphere of radius 42 cm is:

A) 155232

B) 225322

C) 213232

D) 14462

Answer: A

13. Find the cost price if the seller had a loss of 25% when furniture was sold for Rs. 720.

A) 960

B) 850

C) 900

D) 830

Answer: A

14. If 1st February 2024 is Saturday, what day will be March 1st, 2024?

A) Saturday

B) Friday

C) Sunday

D) Monday

Answer: A

15. Find the next number in the given series: DKM, FJP, HIS, JHV, _____

A) HJY

B) LGY

C) IGY

D) GHZ

Answer: B

16. $16 + 8 \div 2 \times 6 - 10 = ?$

A) 32

B) 30

C) 18

D) 52

Answer: B

17. If Shreeja is 15th from the front and rear ends of a queue, then how people are there in the queue?

A) 30

B) 29

C) 28

D) 31

Answer: B

18. At what time between 9 and 10 the hands of a watch be together?

A) 49 $\frac{1}{11}$ min. past 9

B) 48 $\frac{1}{11}$ min. past 9

C) 47 $\frac{2}{13}$ min. past 9

D) 45 min. past 9

Answer: A

19. The ratio of ages of Rekha and Ravi is in the ration 3:5. The difference between their ages is 12 years. What will the age of Rekha?

A) 20 years

B) 18 years

C) 22 years

D) 24 years

Answer: B

20. What day will be 17th June 1998?

A) Thursday

B) Wednesday

C) Friday

D) Saturday

Answer: B