CLOCK

1. **How much does a watch gain or lose per day, if its hands coincide every 64 minutes?**

   (a) $32\frac{8}{11}$ min

   (b) $31\frac{8}{11}$ min

   (c) $32\frac{3}{11}$ min

   (d) None of these

2. **Find the time between 3 and 4 O'clock when the angle between the hands of a watch is one-third of a right angle.**

   (a) $10\frac{10}{11}$ min past 3

   (b) $10\frac{9}{11}$ min past 3

   (c) $11\frac{9}{11}$ min past 3

   (d) None of these

3. **Find the angle between the two hands of a clock of 15 minutes past 4 O'clock.**

   (a) 38.5° (b) 36.5°
   (c) 37.5° (d) None of these

4. **Find the angle between the two hands of a clock at 4.30 pm.**

   (a) 45° (b) 30°
   (c) 60° (d) None of these

5. **At what angle are the two hands of a clock inclined at 20 minutes past 5?**

   (a) 30° (b) 45°
   (c) 50° (d) 40°

6. **How many times do the hands of a clock pq point opposite to each other in 12 hours?**

   (a) 6 times (b) 10 times
   (c) 11 times (d) 12 times

7. **How many times are the hands of a clock at right angles in a day!**

   (a) 24 times (b) 48 times
   (c) 22 times (d) 44 times

8. **How many times in a day are the hands of a clock straight?**

   (a) 48 times (b) 24 times
   (c) 44 times (d) None of these

9. **A watch which gains uniformly, is 5 min slow at 8 O'clock in the morning on Sunday, and is 5 min 48 sec fast at 8 pm on following Sunday. When was it correct?**

   (a) 20 min past 7 pm Tuesday
   (b) 20 min past 7 pm on Wednesday
   (c) 10 min past 7 pm on Tuesday
   (d) 10 min past 7 pm on Wednesday

10. **A clock is set right at 8 am. The clock gains 10 minutes in 24 hours. What will be the true time when the clock indi- cates 1 pm on the following day?**

    (a) 28hrs (b) 28 hrs 48 min
    (c) 28 hrs 42 min (d) None of these

11. **A clock is set right at 4 a.m. The clock loses 20 min in 24 hours. What will be the true time when the clock indicates 3 a.m. on 4th day?**

    (a) 4 am (b) 5 am
    (c) 3 am (d) 4 pm

12. **A watch, which gains uniformly is 2 min slow at noon on Monday, and is 4 min 48 seconds! fast at 2 pm *on* the following Monday. When was it correct?**

    (a) 2 pm on Tuesday
    (b) 2 pm on Wednesday
    (c) 3 pm on Thursday
    (d) 1 pm on Friday

13. A watch which gains 5 seconds n 3 minutes was set right at 7 am. In the afternoon of the same day, when the watch indicated quarter past 4 O'clock, the true time is

(a) $59\frac{7}{12}$ min past 4

(b) 4 pm

(c) $58\frac{7}{11}$ min past 4

(d) $2\frac{3}{11}$ min past 4

14. How many times do the hands of a clock coincide in a

(a)24 (b) 20

(c)21 ri)22

15. How many times do the hands of a clock point towards each other in a day?

(a) 34 (b) 20

(c) 12 (d) 22

16. At what time between 4 and 5 will the hands of a watch be equal distance from the figure 5.

(a) $27\frac{9}{11}$ min past 4

(b) $27\frac{8}{13}$ min past 4

(c) $27\frac{9}{13}$ min past 4

(d) None of these

17. If the hands of a clock coincide every 65 minutes (true time) how much does the clock gain or lose in 24 hours?

(a) $11\frac{10}{143}$ min

(b) $10\frac{10}{143}$ min

(c) $10\frac{9}{143}$ min

(d) None of these

18. At what time between 3 and 4 o'clock are the hands of a clock together'?

(a) $16\frac{5}{11}$ min past 3 (b) $16\frac{7}{11}$ min past 3

(c) $16\frac{4}{11}$ min past 3 (d) None of these

19. At what time between 5 and 6 are the hands of a clock coincident?

(a) 22 minutes past 5

(b) 30 minutes past 5

(c) $22\frac{8}{11}$ minutes past 5

(d) $22\frac{3}{11}$ minutes past 5

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

(a) 45 minutes past 9

(b) 50 minutes past 9

(c) $49\frac{1}{11}$ minutes past 9

(d) $48\frac{2}{11}$ minutes past 9

21. At what time, are the hands of a clock together between 2 and 3?

(a) $10\frac{9}{11}$ min past 2

(b) $10\frac{10}{11}$ min past 2

(c) $10\frac{8}{11}$ min past 2

(d) None of these

22. At what time between 5 and 5:30 o'clock will the hands of a clock be at right angle?

(a) $10\frac{10}{11}$ min past 5

(b) $10\frac{9}{10}$ min past 5

(c) $11\frac{10}{11}$ min past 5

(d) None of these

23. At what limes are the hands of a clock at right angles between 7 pm and 8 am?

(a) $54\frac{6}{11}$ min past 7, $21\frac{9}{11}$ min past 7

(b) $52\frac{5}{11}$ min past 7, $21\frac{8}{11}$ min past 7

(c) $56\frac{6}{11}$ min past 7, $21\frac{8}{11}$ min past 7

(d) None of these

24. At what time between 5.30 and 6 will the hands of a clock be at right angles?

(a) $43\frac{5}{11}$ minutes past 5

(b) $43\frac{7}{11}$ minutes past 5

(c) 40 minutes past 7

(d) 45 minutes past 7

25. At what time between 10 and 11 O'clock will the hand of clock be at right angle?

(a) $38\frac{2}{11}$ min past 10

(b) $6\frac{5}{11}$ min past 10

(c) $38\frac{3}{11}$ min past 10

(d) $8\frac{2}{11}$ min past 10

26. Find at what time between 8 and 9 O'clock will the hands of a clock be in the same straight line but not together.

(a) $10\frac{10}{11}$ min past 10

(b) $10\frac{9}{11}$ min past 10

(c) $11\frac{10}{11}$ min past 10

(d) None of these

27. Find at what time between 2 and 3 O'clock will the hands of a clock be in the same straight line but not together.

(a) $43\frac{6}{11}$ min past 2

(b) $43\frac{7}{11}$ min past 2

(c) $43\frac{3}{11}$ min past 2

(d) None of these

28. Find at what time between 9 and 10 O'clock will the hands of a clock be in the same straight line but not together.

(a) $16\frac{4}{11}$ min past 2

(b) $16\frac{5}{11}$ min past 2

(c) $16\frac{3}{11}$ min past 2

(d) None of these

29. At what time between 5 and 6 are the hands of a clock 3 minutes apart?

(a) 24 min past 6 (b) 26 min past 5

(c) $30\frac{5}{11}$ min past 5

(d) Can't be determined

30. At what time between 4 and 5 are the hands of a clock 4 minutes apart?

(a) $36\frac{2}{11}$ min past 4

(b) $36\frac{5}{11}$ min past 4

(c) $16\frac{5}{11}$ min past 4

(d) None of these

31. At what time between 3 and 4 is the minute-hand 7 minutes ahead of the hour-hand?

(a) 24 min past 5 (b) 24 min past 7
(c) 24 min past 3 (d) 24 min past 8

32. At what time between 3 and 4 is the minute-hand 4 minutes behind the hour-hand?

(a) 12 min past 3 (b) 14 min past 3
(c) 16 min past 3 (d) None of these

33. The minute hand of a clock overtakes the hour hand at intervals of 65 minutes. How much a day does the clock gain or lose?

(a) $10\frac{10}{143}$ min

(b) 10 min

(c) $11\frac{10}{143}$ min

(d) None of these

Clock

1. (d)
2. (a)
3. (c)
4. (a)
5. (d)
6. (c)
7. (d)
8. (c)
9. (b)
10. (d)
11. (a)
12. (b)
13. (b)
14. (d)
15. (d)
16. (b)
17. (b)
18. (b)
19. (c)
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21. (a)
22. (a)
23. (b)
24. (a)
25. (a)
26. (b)
27. (a)
28. (a)
29. (b)
30. (c)
31. (a)
32. (d)