

Clock

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

- A) 3:16 and 4/11
- B) 3:15 and 3/11
- C) 3:17 and 5/11
- D) 3:14 and 2/11

Answer: A) 3:16 and 4/11

2. What is the angle between the two hands of a clock at 4:20?

- A) 0°
- B) 5°
- C) 10°
- D) 20°

Answer: C) 10°

3. How many times do the hands of a clock coincide in a day?

- A) 20
- B) 21
- C) 22
- D) 24

Answer: C) 22

4. A clock is started at noon. By 10 minutes past 5, the hour hand has turned through:

- A) 145°
- B) 150°
- C) 155°
- D) 160°

Answer: C) 155°

5. At what angle are the hands of a clock inclined at 15 minutes past 5?

A) 58.5°

B) 64°

C) 67.5°

D) 72.5°

Answer: C) 67.5°

6. How many times in a day are the hands of a clock in a straight line but opposite in direction?

A) 20

B) 22

C) 24

D) 48

Answer: B) 22

7. A watch which gains 5 seconds in 3 minutes was set right at 7 a.m. In the afternoon of the same day, when the watch indicated a quarter past 4 o'clock, the true time is:

A) 4 p.m.

B) 3:45 p.m.

C) 4:15 p.m.

D) 4:30 p.m.

Answer: A) 4 p.m.

8. The reflex angle between the hands of a clock at 10:25 is:

A) 180°

B) 192.5°

C) 195°

D) 197.5°

Answer: D) 197.5°

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

A) 9:49 $\frac{1}{11}$

B) $9:48 \frac{2}{11}$

C) $9:50 \frac{1}{11}$

D) $9:47 \frac{3}{11}$

Answer: A) $9:49 \frac{1}{11}$

10. How many degrees does the minute hand cover in the same time the hour hand covers 10 degrees?

A) 60°

B) 120°

C) 100°

D) 80°

Answer: B) 120°

11. What is the angle between the minute hand and the hour hand of a clock at 8:30?

A) 60°

B) 75°

C) 80°

D) 90°

Answer: B) 75°

12. A clock gains 15 minutes per day. It is set right at 12 noon. What time will it show at 4 a.m. the next day?

A) 4:10 a.m.

B) 4:15 a.m.

C) 4:20 a.m.

D) 4:30 a.m.

Answer: A) 4:10 a.m.

13. The angle between the hands of a clock is 120° . If the hour hand is at 2, what is the time?

A) 2:20

B) 2:25

C) 2:30

D) 2:35

Answer: A) 2:20

14. How much time does the minute hand of a clock take to describe an angle of $2\pi/3$ radians?

A) 15 minutes

B) 20 minutes

C) 25 minutes

D) 30 minutes

Answer: B) 20 minutes

15. At what time between 2 and 3 o'clock will the hands of a clock be at a right angle?

A) 2:27 $\frac{3}{11}$

B) 2:25 $\frac{5}{11}$

C) 2:28 $\frac{4}{11}$

D) 2:26 $\frac{2}{11}$

Answer: A) 2:27 $\frac{3}{11}$

16. A clock loses 5 minutes every hour and is set right at 8 a.m. on a Monday. When will it show the correct time again?

A) 8 a.m. on Tuesday

B) 8 a.m. on Wednesday

C) 8 a.m. on Thursday

D) 8 a.m. on Friday

Answer: B) 8 a.m. on Wednesday

17. Through how many degrees does the hour hand of a clock turn in 20 minutes?

A) 5°

B) 10°

C) 12°

D) 15°

Answer: B) 10°

18. What is the time when the hands of a clock are in the ratio 1:5 between 4 and 5 o'clock?

A) 4:21 $\frac{9}{11}$

B) 4:22 $\frac{8}{11}$

C) 4:23 $\frac{7}{11}$

D) 4:24 $\frac{6}{11}$

Answer: A) 4:21 $\frac{9}{11}$

19. At what time between 7 and 8 o'clock are the hands of a clock in a straight line, but not together?

A) 7:05 $\frac{5}{11}$

B) 7:06 $\frac{4}{11}$

C) 7:07 $\frac{3}{11}$

D) 7:08 $\frac{2}{11}$

Answer: A) 7:05 $\frac{5}{11}$

20. A watch which gains uniformly is 2 minutes slow at noon on Monday and is 4 min 48 sec fast at 2 p.m. on the following Monday. When was it correct?

A) 2 p.m. on Tuesday

B) 2 p.m. on Wednesday

C) 3 p.m. on Thursday

D) 1 p.m. on Friday

Answer: B) 2 p.m. on Wednesday

21. Find the angle between the hour hand and the minute hand of a clock when the time is 3:25.

A) 45°

B) 47.5°

C) 50°

D) 52.5°

Answer: B) 47.5°

22. How many times are the hands of a clock at a right angle in 12 hours?

A) 22

B) 24

C) 44

D) 48

Answer: A) 22

23. A clock is set right at 5 a.m. The clock loses 16 minutes in 24 hours. What will be the true time when the clock indicates 10 p.m. on the 4th day?

A) 11 p.m.

B) 10:45 p.m.

C) 11:15 p.m.

D) 11:30 p.m.

Answer: A) 11 p.m.

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

A) $10 \frac{10}{143}$ min gain

B) $10 \frac{10}{143}$ min loss

C) $11 \frac{10}{143}$ min gain

D) $11 \frac{10}{143}$ min loss

Answer: A) $10 \frac{10}{143}$ min gain

25. What is the time shown by the mirror if the real time is 5:45?

A) 6:15

B) 7:15

C) 6:45

D) 7:45

Answer: A) 6:15

26. At what time between 5:30 and 6:00 will the hands of a clock be at a right angle?

A) $5:43 \frac{7}{11}$

B) $5:44 \frac{6}{11}$

C) 5:45 $\frac{5}{11}$

D) 5:46 $\frac{4}{11}$

Answer: A) 5:43 $\frac{7}{11}$

27. The hands of a clock are 4 minutes apart. What is the angle between them?

A) 20°

B) 24°

C) 28°

D) 32°

Answer: B) 24°

28. A clock shows 8 o'clock in the morning. Through how many degrees will the hour hand rotate when the clock shows 2 o'clock in the afternoon?

A) 120°

B) 150°

C) 180°

D) 210°

Answer: C) 180°

29. If a clock strikes once at 1 o'clock, twice at 2 o'clock and so on, how many times will it strike in 24 hours?

A) 78

B) 156

C) 182

D) 196

Answer: B) 156

30. At what time are the hands of a clock 7 minutes apart between 3 and 4 o'clock?

A) 3:09 $\frac{9}{11}$

B) 3:25 $\frac{1}{11}$

C) Both A and B

D) None of the above

Answer: C) Both A and B

31. A clock is set right at 1 p.m. If it gains 1 minute in an hour, then what is the true time when the clock indicates 6 p.m. the same day?

- A) 5:55 p.m.
- B) 5:56 p.m.
- C) 5:57 p.m.
- D) 5:58 p.m.

Answer: A) 5:55 p.m.

32. The angle traced by the hour hand of a correct clock between 3 o'clock and 7 o'clock is:

- A) 100°
- B) 120°
- C) 150°
- D) 180°

Answer: B) 120°

33. How many seconds will a clock lose in 24 hours, if its hands coincide every 64 minutes?

- A) $32 \frac{8}{11}$ sec
- B) $33 \frac{7}{11}$ sec
- C) $34 \frac{6}{11}$ sec
- D) $35 \frac{5}{11}$ sec

Answer: A) $32 \frac{8}{11}$ sec

34. At what time between 4 and 5 o'clock will the hands of a watch point in opposite directions?

- A) $4:54 \frac{6}{11}$
- B) $4:55 \frac{5}{11}$
- C) $4:56 \frac{4}{11}$
- D) $4:57 \frac{3}{11}$

Answer: A) $4:54 \frac{6}{11}$

35. The angle between the two hands of a clock is 70° when the hour hand is between 7 and 8. What time does the clock show?

A) 7:21 $\frac{9}{11}$

B) 7:51 $\frac{3}{11}$

C) Both A and B

D) None of the above

Answer: C) Both A and B

36. An accurate clock shows 7 a.m. Through how many degrees will the hour hand rotate when the clock shows 1 p.m.?

A) 150°

B) 180°

C) 210°

D) 240°

Answer: B) 180°

37. A wall clock gains 2 minutes in 12 hours, while a table clock loses 2 minutes every 24 hours. If both are set right at 12 noon on Tuesday, when will they show the same time again?

A) 12 noon on Wednesday

B) 12 noon on Thursday

C) 12:30 p.m. on Thursday

D) 12 noon on Friday

Answer: B) 12 noon on Thursday

38. The time on a clock is 2:30. If the minute hand points towards the north, in which direction will the hour hand point?

A) North-West

B) South-West

C) North-East

D) South-East

Answer: A) North-West

39. A clock's hands are in a straight line, but not together, at a time between 1 and 2 o'clock. What is the exact time?

A) $1:38 \frac{2}{11}$

B) $1:39 \frac{1}{11}$

C) 1:40

D) $1:37 \frac{3}{11}$

Answer: A) $1:38 \frac{2}{11}$

40. How many rotations will the hour hand of a clock complete in 72 hours?

A) 3

B) 6

C) 9

D) 12

Answer: B) 6

41. A clock is 5 minutes fast at 3 p.m. on Sunday and 3 minutes slow at 5 p.m. on Tuesday. When did it show the correct time?

A) 7 a.m. on Monday

B) 7 p.m. on Monday

C) 8 a.m. on Monday

D) 8 p.m. on Monday

Answer: A) 7 a.m. on Monday

42. How long does the hour hand of a clock take to move through an angle of 30 degrees?

A) 30 minutes

B) 45 minutes

C) 60 minutes

D) 90 minutes

Answer: C) 60 minutes

43. At what time between 8 and 9 o'clock are the hands of a clock at an angle of 90° ?

A) $8:27 \frac{3}{11}$

B) $8:52 \frac{8}{11}$

C) Both A and B

D) None of the above

Answer: C) Both A and B

44. A clock is set right at noon. What is the time when the hour and minute hands are 18 minutes apart?

A) $12:19 \frac{7}{11}$

B) $12:20 \frac{6}{11}$

C) $12:21 \frac{5}{11}$

D) $12:22 \frac{4}{11}$

Answer: A) $12:19 \frac{7}{11}$

45. The minute hand of a clock is 10 cm long. Find the area of the face of the clock described by the minute hand between 9 a.m. and 9:35 a.m.

A) 183.33 cm^2

B) 188.33 cm^2

C) 193.33 cm^2

D) 198.33 cm^2

Answer: A) 183.33 cm^2

46. What is the angle between the two hands of a clock when the time is 7:35?

A) 15°

B) 17.5°

C) 20°

D) 22.5°

Answer: B) 17.5°

47. A clock which loses uniformly is 5 min fast at 8 o'clock in the morning on Sunday and it is 5 min 48 sec slow at 8 p.m. on the following Sunday. When was the clock correct?

A) Wednesday 7:20 p.m.

B) Thursday 7:20 a.m.

C) Friday 7:20 p.m.

D) Saturday 7:20 a.m.

Answer: A) Wednesday 7:20 p.m.

48. At what time will the minute hand and the hour hand of a clock make an angle of 180° between 6 and 7 o'clock?

A) 6 o'clock

B) 6:01

C) 6:02

D) 6:03

Answer: A) 6 o'clock

49. How many degrees does the hour hand move in one minute?

A) 0.5°

B) 1°

C) 5°

D) 6°

Answer: A) 0.5°

50. The time on a watch is a quarter to three. If the minute hand points to North-East, in which direction does the hour hand point?

A) South-West

B) North-West

C) South-East

D) North-East

Answer: A) South-West

51. A clock strikes the number of hours. How many strikes does it make in one full day?

A) 156

B) 180

C) 196

D) 204

Answer: A) 156

52. What is the mirror image of the time 12:30?

A) 12:30

B) 11:30

C) 1:30

D) 6:30

Answer: B) 11:30

53. If the two hands in a clock are 3 minutes divisions apart, then the angle between them is:

A) 3°

B) 18°

C) 24°

D) 60°

Answer: B) 18°

54. A clock which gains 1 hour in every 24 hours is set right on Sunday 9 a.m. Then what will be the true time on Tuesday 11 a.m.?

A) 10 a.m.

B) 9:30 a.m.

C) 10:30 a.m.

D) 9 a.m.

Answer: D) 9 a.m.

55. How many degrees will the minute hand move, in the same time in which the second hand moves 300° ?

A) 5°

B) 10°

C) 15°

D) 20°

Answer: A) 5°

56. At what time between 10 and 11 o'clock will the hands of the clock be in the same straight line, but not together?

A) 10:21 $\frac{9}{11}$

B) 10:22 $\frac{8}{11}$

C) 10:23 $\frac{7}{11}$

D) 10:24 $\frac{6}{11}$

Answer: A) 10:21 $\frac{9}{11}$

57. The hands of a correct clock coincide every X minutes. What is the value of X?

A) 60

B) 65 $\frac{5}{11}$

C) 66 $\frac{4}{11}$

D) 67 $\frac{3}{11}$

Answer: B) 65 $\frac{5}{11}$

58. What is the angle between the hands of a clock at 1 o'clock?

A) 0°

B) 5°

C) 30°

D) 60°

Answer: C) 30°

59. A clock is 10 minutes slow. If the clock shows 6:00 p.m., what is the actual time?

A) 5:50 p.m.

B) 6:10 p.m.

C) 6:00 p.m.

D) 6:20 p.m.

Answer: B) 6:10 p.m.

60. The speed of the hour hand is:

A) 0.5 degrees/min

B) 1 degree/min

C) 5 degrees/min

D) 6 degrees/min

Answer: A) 0.5 degrees/min

61. What is the angle between the minute hand and the second hand of a clock in 15 seconds?

A) 90°

B) 82.5°

C) 75°

D) 67.5°

Answer: B) 82.5°

62. At what time between 6 and 7 o'clock are the hands of a clock 5 minutes apart?

A) 6:27 $\frac{3}{11}$

B) 6:38 $\frac{2}{11}$

C) Both A and B

D) None of the above

Answer: C) Both A and B

63. The reflection of a wall clock in a mirror shows the time as 3:40. What is the actual time?

A) 8:20

B) 9:20

C) 8:40

D) 9:40

Answer: A) 8:20

64. Through what angle does the minute hand of a clock turn in 45 minutes?

A) 225°

B) 270°

C) 315°

D) 360°

Answer: B) 270°

65. A clock goes slow by 10 minutes in 24 hours. If it is set at 5 a.m. on a day, what will be the time shown by this clock after 48 hours?

- A) 4:40 a.m.
- B) 4:50 a.m.
- C) 5:10 a.m.
- D) 5:20 a.m.

Answer: A) 4:40 a.m.

66. A watch shows 4:30. If the minute hand points to the East, in which direction will the hour hand point?

- A) North-East
- B) South-East
- C) North-West
- D) South-West

Answer: A) North-East

67. How many degrees does the minute hand gain over the hour hand in one minute?

- A) 5°
- B) 5.5°
- C) 6°
- D) 6.5°

Answer: B) 5.5°

68. At what time between 12 and 1 o'clock are the hands of a clock in opposite directions?

- A) 12:32 $\frac{8}{11}$
- B) 12:33 $\frac{7}{11}$
- C) 12:34 $\frac{6}{11}$
- D) 12:35 $\frac{5}{11}$

Answer: A) 12:32 $\frac{8}{11}$

69. In a day, how many times the minute hand of a clock is ahead of the hour hand by 90 degrees?

- A) 22
- B) 24
- C) 44
- D) 48

Answer: A) 22

70. The angle between the hands of a clock when the time is 10:00 is:

- A) 30°
- B) 60°
- C) 90°
- D) 120°

Answer: B) 60°

71. A clock loses 2 minutes in an hour. If it's set correctly at 12 noon, what time will it show at 2 p.m.?

- A) 1:56 p.m.
- B) 1:58 p.m.
- C) 2:02 p.m.
- D) 2:04 p.m.

Answer: A) 1:56 p.m.

72. At what time between 1 and 2 o'clock will the hands of a clock be together?

- A) 1:05 $\frac{5}{11}$
- B) 1:06 $\frac{4}{11}$
- C) 1:07 $\frac{3}{11}$
- D) 1:08 $\frac{2}{11}$

Answer: A) 1:05 $\frac{5}{11}$

73. The angle between the minute hand and hour hand of the clock when the time is 6:30 is:

- A) 0°

B) 15°

C) 30°

D) 45°

Answer: B) 15°

74. A clock that gains 5 minutes every 3 hours is set at 1 p.m. What time will it show at 10 p.m. on the same day?

A) 10:15 p.m.

B) 10:20 p.m.

C) 10:25 p.m.

D) 10:30 p.m.

Answer: A) 10:15 p.m.

75. What time is it when the angle between the hands of a clock is 180 degrees, between 2 and 3 o'clock?

A) $2:43 \frac{7}{11}$

B) $2:44 \frac{6}{11}$

C) $2:45 \frac{5}{11}$

D) $2:46 \frac{4}{11}$

Answer: A) $2:43 \frac{7}{11}$

76. In 16 minutes, the minute hand gains over the hour hand by:

A) 16°

B) 80°

C) 88°

D) 96°

Answer: C) 88°

77. At what time between 11 and 12 o'clock are the hands of a clock at right angles?

A) $11:10 \frac{10}{11}$

B) $11:43 \frac{7}{11}$

C) Both A and B

D) None of the above

Answer: C) Both A and B

78. The time shown in a water image of a clock is 8:20. What is the actual time?

A) 10:10

B) 9:10

C) 10:40

D) 9:40

Answer: A) 10:10

79. The hour hand of a clock is 7 cm long. The distance covered by its tip in 2 days is:

A) 88 cm

B) 176 cm

C) 264 cm

D) 352 cm

Answer: B) 176 cm

80. A clock is started at 3 p.m. By 3:40 p.m., the hour hand has turned through:

A) 15°

B) 20°

C) 25°

D) 30°

Answer: B) 20°

81. When the minute hand covers a distance of 1 hour 20 minutes, then the angular distance covered by it is:

A) 400°

B) 420°

C) 480°

D) 540°

Answer: C) 480°

82. A faulty clock gains 15 minutes in 24 hours. If it is set right at 10 a.m., what time will it show at 10 p.m. the next day?

A) 10:18:45 p.m.

B) 10:20 p.m.

C) 10:21:15 p.m.

D) 10:22:30 p.m.

Answer: A) 10:18:45 p.m.

83. What is the angle between the hour and minute hands at 12:40?

A) 120°

B) 130°

C) 140°

D) 150°

Answer: C) 140°

84. How many times between 4 a.m. and 4 p.m. will the hands of a clock be at right angles?

A) 22

B) 24

C) 44

D) 48

Answer: A) 22

85. At what time are the hands of a clock 20 minute spaces apart between 7 and 8 o'clock?

A) 7:21 $\frac{9}{11}$

B) 7:51 $\frac{3}{11}$

C) Both A and B

D) None of the above

Answer: C) Both A and B

86. A clock takes 7 seconds to strike 7. How many seconds will it take to strike 10?

- A) 9 seconds
- B) 10 seconds
- C) 10.5 seconds
- D) 11 seconds

Answer: C) 10.5 seconds

87. Find the time between 2 and 3 o'clock when the hands of a clock are 12 minutes apart.

- A) 2:12
- B) 2:24
- C) Both A and B
- D) None of the above

Answer: C) Both A and B

88. If a clock shows 6:30 and the hour hand is pointing West, which direction does the minute hand point?

- A) North
- B) South
- C) East
- D) West

Answer: B) South

89. A watch reads 3:30. If the minute hand points East, the hour hand will point to:

- A) North-East
- B) South-East
- C) North-West
- D) South-West

Answer: B) South-East

90. How many times do the hour and minute hands of a clock form a 30-degree angle in 12 hours?

- A) 22
- B) 24

C) 44

D) 48

Answer: A) 22

91. What is the angle between the hands of a clock at 2:20?

A) 50°

B) 60°

C) 70°

D) 80°

Answer: A) 50°

92. A clock gains 10 seconds in 3 minutes. It was set right at 9 a.m. What time will it show at 9 p.m. on the same day?

A) 9:10 p.m.

B) 9:20 p.m.

C) 9:30 p.m.

D) 9:40 p.m.

Answer: B) 9:20 p.m.

93. The angle between the hands of a clock is 60° . If the hour hand is at 4, what is the time?

A) 4:21 $\frac{9}{11}$

B) 4:43 $\frac{7}{11}$

C) Both A and B

D) None of the above

Answer: C) Both A and B

94. What is the angle covered by the minute hand in 22 minutes?

A) 66°

B) 110°

C) 121°

D) 132°

Answer: D) 132°

95. A clock loses 1% time during the first week and then gains 2% time during the next one week. If the clock was set right at 12 noon on a Sunday, what will be the time that the clock will show exactly 14 days from the time it was set right?

- A) 12:00 noon
- B) 12:02:24 p.m.
- C) 12:04:48 p.m.
- D) 12:07:12 p.m.

Answer: B) 12:02:24 p.m.

96. A clock set at 4 a.m. shows 4:10 at the actual time of 4:05 a.m. on the same day. At what time will the clock show 8:30 p.m. on the next day?

- A) 8:00 p.m.
- B) 8:15 p.m.
- C) 8:30 p.m.
- D) 8:45 p.m.

Answer: A) 8:00 p.m.

97. What is the angle between the two hands of a clock at 9:15?

- A) 150°
- B) 157.5°
- C) 165°
- D) 172.5°

Answer: B) 157.5°

98. A clock is set to show the correct time at 12 noon. It gains 12 minutes in 12 hours. What will be the true time when the clock shows 1:30 a.m. on the next day?

- A) 1:15 a.m.
- B) 1:17 a.m.
- C) 1:19 a.m.
- D) 1:21 a.m.

Answer: D) 1:21 a.m.

99. At what time do the hands of a clock between 7:00 and 8:00 form a 45-degree angle?

A) 7:30

B) 7:46 $\frac{4}{11}$

C) Both A and B

D) None of the above

Answer: C) Both A and B

100. How many times will the hands of a clock be 15 minutes apart in 24 hours?

A) 44

B) 48

C) 22

D) 24

Answer: A) 44