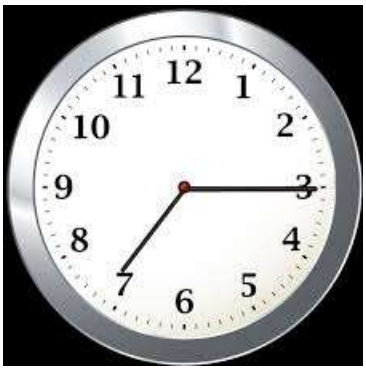
Time ⏰
Grade 2

Name: _____ **Date:** _____

📝 SECTION A: READING TIME ON ANALOGUE CLOCKS

Instructions: Write the time shown on each clock in both 12-hour format and digital format.

Question 1



Time in words: _____ **Digital format:** _____

Question 2

Time in words: _____ **Digital format:** _____

Question 3

Time in words: _____ **Digital format:** _____

Question 4

Time in words: _____ **Digital format:** _____

Question 5

Time in words: _____ **Digital format:** _____

Question 6

Time in words: _____ **Digital format:** _____

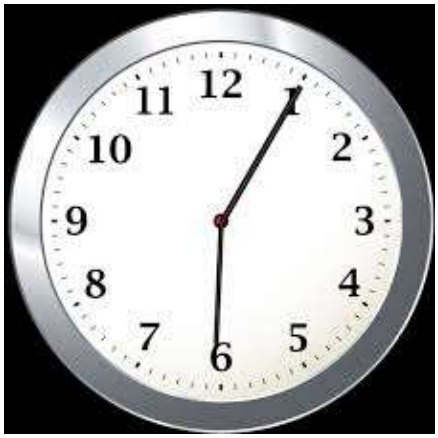
Question 7

Time in words: _____ **Digital format:** _____

Question 8

Time in words: _____ **Digital format:** _____

Question 9



Time in words: _____ **Digital format:** _____

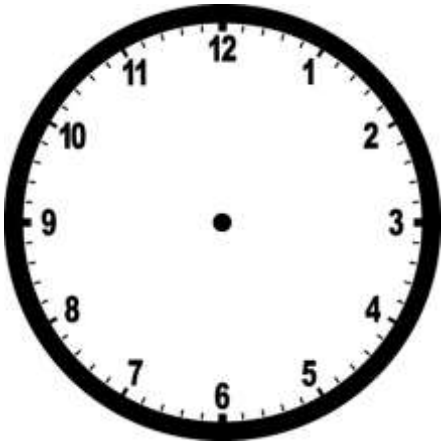
Question 10

Time in words: _____ **Digital format:** _____

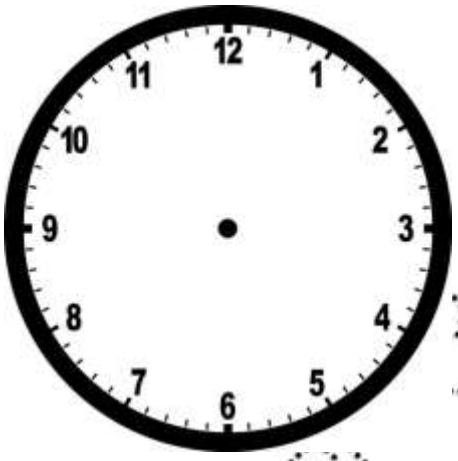
SECTION B: DRAWING CLOCK HANDS

Instructions: Draw the hour hand and minute hand on each clock to show the given time.

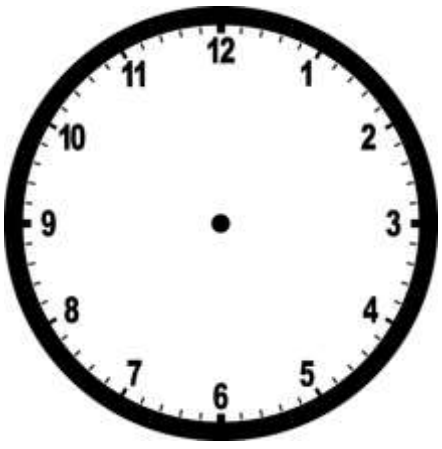
Question 11: Show 4:20



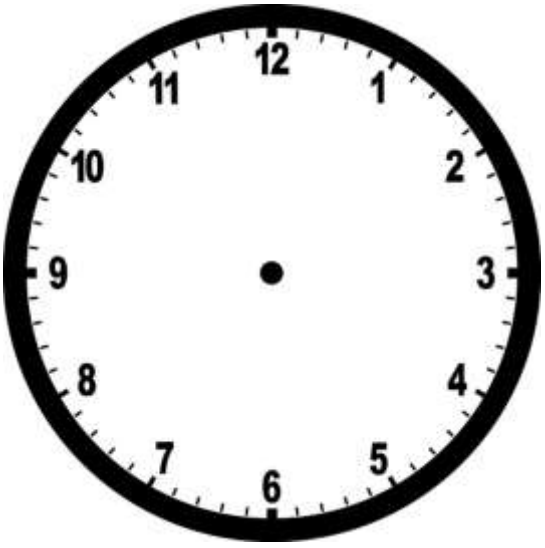
Question 12: Show 9:45



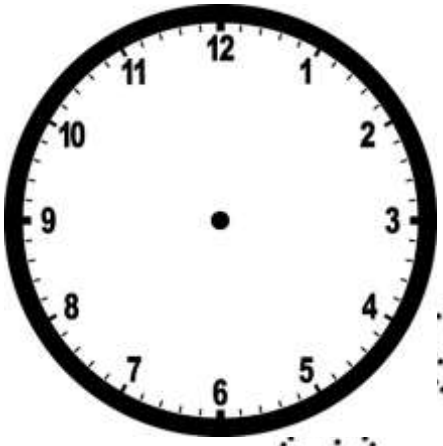
Question 13: Show 2:55



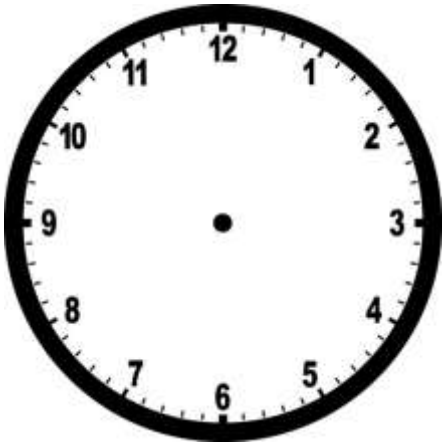
Question 14: Show 7:10



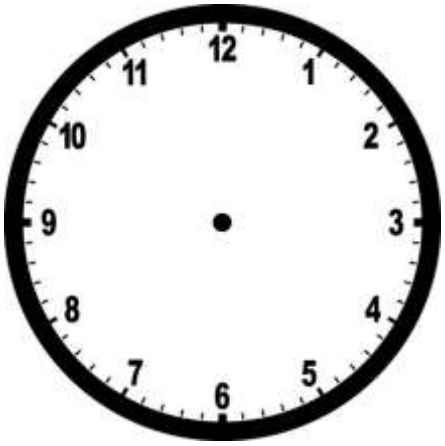
Question 15: Show 11:35



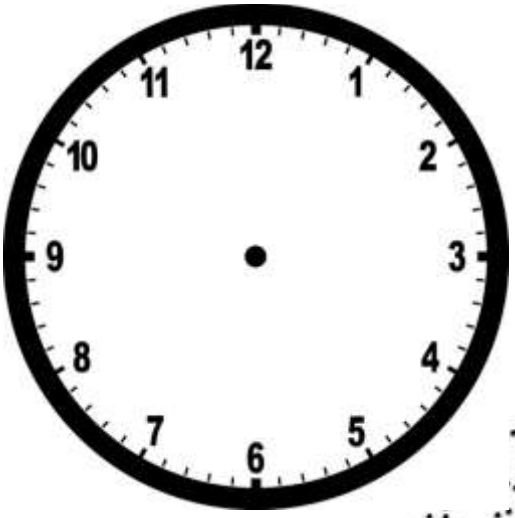
Question 16: Show 5:50



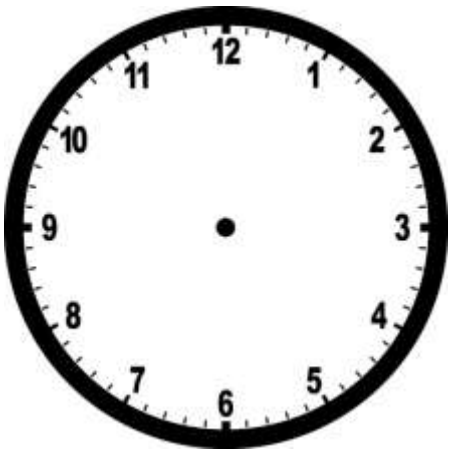
Question 17: Show 1:25



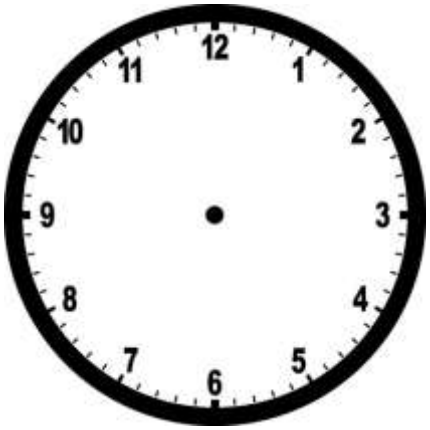
Question 18: Show 8:05



Question 19: Show 3:40



Question 20: Show 10:15



SECTION C: TIME CONVERSIONS

Instructions: Convert the following time units. Show your working.

Minutes to Seconds

21. 8 minutes = _____ seconds

22. 15 minutes = _____ seconds

23. 23 minutes = _____ seconds

24. 45 minutes = _____ seconds

Hours to Minutes

25. 6 hours = _____ minutes

26. 9 hours = _____ minutes

27. 12 hours = _____ minutes

28. 15 hours = _____ minutes

Days to Hours

29. 5 days = _____ hours

30. 10 days = _____ hours

31. 14 days = _____ hours

32. 30 days = _____ hours

Weeks to Days

33. 8 weeks = _____ days

34. 12 weeks = _____ days

35. 26 weeks = _____ days

Mixed Conversions

36. 2 hours 30 minutes = _____ minutes

37. 180 seconds = _____ minutes

38. 96 hours = _____ days

39. 3 weeks 4 days = _____ days

40. 7200 seconds = _____ hours

SECTION D: CALENDAR QUESTIONS

Instructions: Answer the following questions about calendars, months, and dates.

41. Which month has the fewest days? _____

42. How many months have exactly 31 days? _____

43. If today is Wednesday, what day will it be 10 days from now? _____

44. How many days are there between March 15 and April 20? (not including both dates) _____

45. If January 1st falls on a Friday, what day of the week will January 31st be? _____

46. How many Sundays are there in a leap year that starts on Sunday? _____

47. What is the date 100 days after June 15? (non-leap year) _____

48. How many complete weeks are in a year of 365 days? _____

49. If your birthday is on August 23rd, how many days until your birthday from May 10th? (same year, non-leap) _____

50. In a leap year, how many days are there from February 1st to March 1st? (including both dates) _____

51. Which months have exactly 30 days? List all four.

---

52. If December 25th falls on a Tuesday, what day was December 1st? _____

53. How many days are in the first quarter of the year (January to March) in a leap year? _____

54. A library book is borrowed on April 3rd and must be returned in 3 weeks. What is the return date? _____

55. If a person is born on February 29, 2004, how many actual birthdays will they celebrate by 2025? _____

56. What is the total number of days in the months of July, August, and September combined? _____

57. How many days from October 15 to December 8? (not including both dates) _____

58. If today is the 150th day of the year, what is the date? (non-leap year) _____

59. A school term runs from September 1st to November 30th. How many complete weeks is this? _____

60. In 2024 (a leap year), how many days are there from January 15th to March 15th? (including both dates) _____

📊 SECTION E: TIME CALCULATIONS

Instructions: Solve the following time calculation problems. Show your work.

61. Add: 3 hours 45 minutes + 2 hours 35 minutes = _____

62. Subtract: 5 hours 20 minutes - 2 hours 45 minutes = _____

63. A movie starts at 2:45 PM and ends at 5:10 PM. How long is the movie? _____

64. If you sleep for 8 hours 30 minutes and wake up at 7:15 AM, what time did you go to bed? _____

65. Add: 4 hours 55 minutes + 3 hours 40 minutes + 2 hours 25 minutes = _____

66. A train journey takes 6 hours 45 minutes. If it departs at 9:30 AM, when does it arrive? _____

67. Calculate: 12 hours 15 minutes - 7 hours 50 minutes = _____

68. If a clock gains 5 minutes every hour, how much time will it gain in 24 hours? _____

69. Three activities take 45 minutes, 1 hour 20 minutes, and 55 minutes. What is the total time? _____

70. A bakery opens at 6:30 AM and closes at 8:45 PM. How many hours is it open? _____

71. Add: 15 minutes 45 seconds + 28 minutes 30 seconds + 12 minutes 50 seconds = _____

72. If you start homework at 4:15 PM and finish at 6:35 PM, how long did you work? _____

73. A bus leaves every 35 minutes starting at 7:00 AM. What time does the 5th bus leave? _____

74. Calculate: 24 hours - 18 hours 35 minutes = _____

75. A race started at 10:47 AM. The winner finished in 2 hours 38 minutes. What time did they finish? _____

76. How many minutes are there in a week? _____

77. If a clock shows 3:40 but is 25 minutes slow, what is the actual time? _____

78. A factory operates in three 8-hour shifts per day. How many hours does it operate in a week? _____

79. Add: 2 days 5 hours 30 minutes + 1 day 20 hours 45 minutes = _____

80. A plane departs at 11:55 PM and lands at 3:20 AM the next day. What is the flight duration? _____

81. Multiply: 2 hours 15 minutes × 4 = _____

82. If you practice piano for 45 minutes every day, how many hours do you practice in 2 weeks? _____

83. Calculate: 7 hours 10 minutes ÷ 2 = _____

84. A clock is 15 minutes fast. It shows 6:50 PM. What is the correct time? _____

85. How many seconds are there in 2 hours 15 minutes 30 seconds? _____

📖 SECTION F: WORD PROBLEMS (30 marks)

Instructions: Read each problem carefully and solve. Show all your work.

86. Sarah's school starts at 8:30 AM. It takes her 15 minutes to walk to school, 20 minutes to get ready, and 25 minutes to eat breakfast. What time should she wake up to reach school on time?

Answer: _____

87. A baker needs to bake bread that takes 2 hours 45 minutes. If he wants the bread ready by 1:30 PM, what time should he start baking?

Answer: _____

88. A movie theater shows a movie at 3:20 PM. The movie is 2 hours 35 minutes long, and there are 15 minutes of previews before the movie. What time will the show end?

Answer: _____

89. Tom's train is scheduled to arrive at 4:15 PM, but it's running 48 minutes late. His dad needs 25 minutes to drive to the station. What is the latest time his dad can leave home to pick him up when the train arrives?

Answer: _____

90. A library opens at 9:00 AM and closes at 7:30 PM from Monday to Friday, and from 10:00 AM to 5:00 PM on Saturday and Sunday. How many hours is the library open in one week?

Answer: _____

---

91. Emma practices violin for 40 minutes every day from Monday to Friday, and 1 hour 15 minutes on both Saturday and Sunday. How much time does she practice in 4 weeks?

Answer: _____

---

92. A train travels from City A to City B in 5 hours 40 minutes. If it departs City A at 11:45 AM and makes two stops of 15 minutes each, what time does it arrive at City B?

Answer: _____

93. David's birthday is on March 15th. His friend's birthday is 127 days after his. What is the date of his friend's birthday? (non-leap year)

Answer: _____

94. A sports tournament starts on July 18th and lasts for 3 weeks and 4 days. On what date does the tournament end?

Answer: _____

95. A factory produces 150 toys per hour. If it operates for 16 hours per day for 6 days a week, how many toys does it produce in 4 weeks?

Answer: _____

---

96. An exam starts at 9:30 AM. Students have 2 hours 45 minutes to complete it. If there's a 10-minute break after the first half, what time does the exam end?

Answer: _____

---

97. A car rental costs $45 for the first 3 hours and $12 for each additional hour. If you rent a car from 10:20 AM to 5:35 PM, how much will it cost?

Answer: _____

---

98. A garden sprinkler runs for 25 minutes every morning and 30 minutes every evening. How many hours does it run in the month of April?

Answer: _____

99. A medication must be taken every 8 hours. If the first dose is taken at 6:00 AM, list the times for the next 4 doses in a 24-hour period.

Answer: _____

---

100. Two cities are in different time zones, with a 9-hour 30-minute time difference. When it's 3:45 PM in City A, what time is it in City B? (City B is ahead)

Answer: _____

---

101. A baker starts work at 4:30 AM. He spends 1 hour 45 minutes preparing dough, 2 hours 20 minutes baking, 45 minutes decorating, and 30 minutes cleaning. What time does he finish?

Answer: _____

102. A concert starts at 7:45 PM. There are 3 bands performing, each playing for 45 minutes with 20-minute breaks between bands. What time does the concert end?

Answer: _____

---

103. If February 14th is exactly 6 weeks away, what is today's date?

Answer: _____

---

104. A water tank fills at a rate of 150 liters per hour. If it starts filling at 11:35 PM and needs to fill 1,800 liters, what time will it be full?

Answer: _____

105. A school day is 6 hours 30 minutes long. If there are 180 school days in a year, how many total hours do students spend in school?

Answer: _____

SECTION G: ADVANCED TIME PROBLEMS

Instructions: These problems require multiple steps. Show all calculations.

106. If you work 8 hours per day, 5 days a week for 48 weeks a year, how many total hours do you work in a year? Convert your answer to days and hours.

Answer: _____

---

107. A clock loses 3 minutes every 2 hours. If it's set correctly at noon, what time will it show when the actual time is 11:00 PM?

Answer: _____

---

108. Three friends meet every 4 days, 6 days, and 8 days respectively. If they all meet today, after how many days will they all meet again?

Answer: _____

---

109. A factory operates 24 hours a day with three 8-hour shifts. Each shift has a 30-minute lunch break. How many total productive hours does the factory have in a 30-day month?

Answer: _____

---

110. A runner completes a lap in 4 minutes 35 seconds. How many complete laps can they run in exactly 1 hour?

Answer: _____

---

111. If January 1, 2024 is a Monday, what day of the week is December 31, 2024? (2024 is a leap year)

Answer: _____

---

112. A clock's minute hand and hour hand overlap at 12:00. At what time will they next overlap? (Give exact time in hours and minutes)

Answer: _____

113. A project must be completed in 8 weeks. If 5 people work 6 hours per day, 5 days a week, and each hour of work equals 1 "work unit," how many total work units will be completed?

Answer: _____

---

114. A train travels at 80 km/h. If it departs at 7:15 AM and needs to cover 420 km with two stops of 20 minutes each, what time will it arrive?

Answer: _____

---

115. You have appointments at 9:30 AM, 11:45 AM, 2:15 PM, and 4:50 PM. Each appointment lasts 35 minutes. How much free time do you have between 9:30 AM and 5:30 PM? (Include time before first and after last appointment)

Answer: _____

🎯 SECTION H: TIME ZONE & 24-HOUR FORMAT

Instructions: Convert between 12-hour and 24-hour formats, and solve time zone problems.

116. Convert 2:45 PM to 24-hour format: _____

117. Convert 21:30 to 12-hour format: _____

118. Convert 11:55 AM to 24-hour format: _____

119. Convert 00:15 to 12-hour format: _____

120. Convert 6:20 PM to 24-hour format: _____

121. New York is 10 hours 30 minutes behind Mumbai. If it's 8:45 AM in New York, what time is it in Mumbai?

Answer: _____

---

122. London is 5 hours 30 minutes behind Mumbai. If it's 11:20 PM in Mumbai, what time is it in London?

Answer: _____

---

123. A flight departs Tokyo at 14:35 (24-hour format) and flies for 12 hours 45 minutes. What time does it land in Tokyo time (24-hour format)?

Answer: _____

---

124. Convert 23:59 to 12-hour format: _____

125. A video call is scheduled for 9:00 AM Pacific Time. If you're in a zone that is 12 hours 30 minutes ahead, what time should you join? (Give in 24-hour format)

Answer: _____

⭐ BONUS SECTION

126. How many times in a 12-hour period do the hour and minute hands of a clock form a right angle (90 degrees)?

Answer: _____

---

127. If you could live 1 billion seconds, how many years would that be? (Round to nearest year, assume 365 days per year)

Answer: _____

---

128. A special clock runs backwards. It shows 3:30 PM. After running backwards for 2 hours 45 minutes, what time does it show?

Answer: _____

---

129. How many times does the minute hand pass the hour hand in a full 24-hour day?

Answer: _____

---

130. If every 4th year is a leap year, how many leap years are there between 2000 and 2100 (inclusive)? Note: Century years must be divisible by 400 to be leap years.

Answer: _____

📋 ANSWER KEY

SECTION A: READING TIME ON ANALOGUE CLOCKS

1. **Quarter past seven / 7:15**
2. **Twenty to four / 3:40**
3. **Ten past one / 1:10**
4. **Twenty to six / 5:40**
5. **Quarter to five / 4:45**
6. **Three o'clock / 3:00**
7. **Twenty-five to twelve / 11:35**
8. **Twenty-five to four / 3:55**
9. **Five past six / 6:05**
10. **Twenty past eight / 8:20**

SECTION B: DRAWING CLOCK HANDS

11. **4:20** - Hour hand between 4 and 5, minute hand at 4
12. **9:45** - Hour hand between 9 and 10, minute hand at 9
13. **2:55** - Hour hand almost at 3, minute hand at 11
14. **7:10** - Hour hand just past 7, minute hand at 2
15. **11:35** - Hour hand between 11 and 12, minute hand at 7
16. **5:50** - Hour hand almost at 6, minute hand at 10
17. **1:25** - Hour hand between 1 and 2, minute hand at 5
18. **8:05** - Hour hand just past 8, minute hand at 1
19. **3:40** - Hour hand between 3 and 4, minute hand at 8
20. **10:15** - Hour hand between 10 and 11, minute hand at 3

SECTION C: TIME CONVERSIONS

21. **480 seconds** (8 × 60)
22. **900 seconds** (15 × 60)
23. **1,380 seconds** (23 × 60)
24. **2,700 seconds** (45 × 60)
25. **360 minutes** (6 × 60)
26. **540 minutes** (9 × 60)
27. **720 minutes** (12 × 60)
28. **900 minutes** (15 × 60)
29. **120 hours** (5 × 24)
30. **240 hours** (10 × 24)
31. **336 hours** (14 × 24)
32. **720 hours** (30 × 24)
33. **56 days** (8 × 7)
34. **84 days** (12 × 7)
35. **182 days** (26 × 7)
36. **150 minutes** (120 + 30)
37. **3 minutes** (180 ÷ 60)
38. **4 days** (96 ÷ 24)
39. **25 days** (21 + 4)
40. **2 hours** (7200 ÷ 60 ÷ 60)

SECTION D: CALENDAR QUESTIONS

41. **February**
42. **7 months** (January, March, May, July, August, October, December)

43. **Saturday** (Wednesday + 10 = Saturday; 10 ÷ 7 = 1 week + 3 days)
44. **35 days** (16 days in March + 19 days in April)
45. **Sunday** (31 days from Friday = 4 weeks + 3 days = Monday, but Jan 31 is 30 days after Jan 1 = Sunday)
46. **53 Sundays** (366 days = 52 weeks + 2 days; starts on Sunday, ends on Monday)
47. **September 23rd** (15 days left in June + 31 in July + 31 in August + 23 in Sept = 100)
48. **52 complete weeks** (365 ÷ 7 = 52 remainder 1)
49. **105 days** (21 in May + 30 in June + 31 in July + 23 in August)
50. **30 days** (29 days in Feb leap year + March 1)
51. **April, June, September, November**
52. **Monday** (25 - 1 = 24 days before; 24 ÷ 7 = 3 weeks + 3 days back = Monday)
53. **91 days** (31 in Jan + 29 in Feb + 31 in Mar)
54. **April 24th** (21 days after April 3)
55. **5 birthdays** (2004, 2008, 2012, 2016, 2020, 2024 - that's 6 including birth year, but 5 celebrated birthdays)
56. **92 days** (31 + 31 + 30)
57. **53 days** (16 days in Oct + 30 in Nov + 7 in Dec)
58. **May 30th** (31 Jan + 28 Feb + 31 Mar + 30 Apr + 30 May = 150)
59. **13 complete weeks** (91 days ÷ 7 = 13 weeks)
60. **61 days** (17 days in Jan + 29 in Feb + 15 in Mar)

SECTION E: TIME CALCULATIONS

61. **6 hours 20 minutes**
62. **2 hours 35 minutes**
63. **2 hours 25 minutes**
64. **10:45 PM** (7:15 AM - 8:30 = 10:45 PM previous night)

65. **11 hours** (4:55 + 3:40 + 2:25 = 10:100 = 11:00)

66. **4:15 PM** (9:30 AM + 6:45 = 4:15 PM)

67. **4 hours 25 minutes**

68. **2 hours** (5 minutes × 24 = 120 minutes = 2 hours)

69. **3 hours** (45 min + 80 min + 55 min = 180 min = 3 hours)

70. **14 hours 15 minutes**

71. **57 minutes 5 seconds** (15:45 + 28:30 + 12:50 = 56:125 = 57:05)

72. **2 hours 20 minutes**

73. **9:20 AM** (7:00, 7:35, 8:10, 8:45, 9:20)

74. **5 hours 25 minutes**

75. **1:25 PM** (10:47 AM + 2:38 = 1:25 PM)

76. **10,080 minutes** (7 × 24 × 60)

77. **4:05** (3:40 + 25 minutes)

78. **168 hours** (24 hours × 7 days)

79. **4 days 2 hours 15 minutes** (3 days + 26 hours 15 min = 4 days 2:15)

80. **3 hours 25 minutes** (11:55 PM to midnight = 5 min; midnight to 3:20 AM = 3:20; total = 3:25)

81. **9 hours** (2:15 × 4 = 8:60 = 9:00)

82. **10.5 hours** (45 min × 14 days = 630 min = 10.5 hours)

83. **3 hours 35 minutes** (7:10 ÷ 2 = 3:35)

84. **6:35 PM** (6:50 - 15 minutes)

85. **8,130 seconds** (2 hrs = 7200 sec; 15 min = 900 sec; total = 8,130)

SECTION F: WORD PROBLEMS

86. **7:30 AM** (Total time needed: 60 minutes; 8:30 - 1:00 = 7:30)

87. **10:45 AM** (1:30 PM - 2:45 = 10:45 AM)

88. **6:10 PM** (3:20 + 15 min + 2:35 = 6:10 PM)

89. **4:38 PM** (4:15 + 48 min = 5:03; 5:03 - 25 min = 4:38 PM)

90. **60.5 hours** (5 days × 10.5 hrs + 2 days × 7 hrs = 52.5 + 14 = 66.5 hours)

91. **24 hours 40 minutes** (Weekly: 200 min + 150 min = 350 min; 4 weeks = 1400 min = 23 hrs 20 min) **Correction: 23 hours 20 minutes**

92. **6:10 PM** (11:45 + 5:40 + 30 min stops = 6:10 PM)

93. **July 20th** (March: 16 days + April: 30 + May: 31 + June: 30 + July: 20 = 127)

94. **August 12th** (July: 13 days + 3 weeks 4 days = 25 days total; Aug 12)

95. **57,600 toys** (150 × 16 × 6 × 4)

96. **12:25 PM** (9:30 + 2:45 + 0:10 = 12:25)

97. **$129** (10:20 to 5:35 = 7 hrs 15 min; $45 + 4.25 hrs × $12 = $45 + $51 = $96) **Correction: 7 hours 15 min = first 3 hrs ($45) + 4.25 hrs ($51) = $96**

98. **27.5 hours** (55 min/day × 30 days = 1650 min = 27.5 hours)

99. **2:00 PM, 10:00 PM, 6:00 AM (next day), 2:00 PM (next day)**

100. **1:15 AM (next day)** (3:45 PM + 9:30 = 1:15 AM)

101. **10: