

## Measurement: Skill 5 - 16C

### Time

Test question 16C. Write the elapsed time. 6.32 A.M. to 9:08 P.M. **Answer:** 14 hr 36 min

### Units of Time

60 seconds (sec) = 1 minute (min)

60 minutes = 1 hour (hr)

24 hours = 1 day (d)

7 days = 1 week (wk)

12 months (mo) = 1 year (yr)

About 52 weeks = 1 yr

365 days = 1 year (y)

366 days = 1 leap year

10 years = 1 decade

100 years = 1 century

1,000 years = 1 millennium

### Elapsed Time

Count the whole days from

2 P.M. April 12 to

2 P.M. April 16.

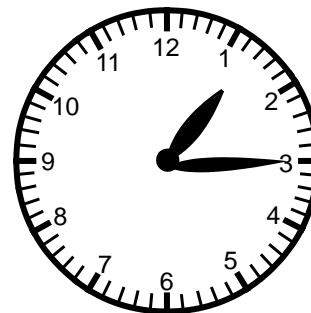
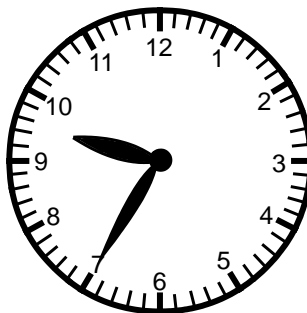
April						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

Count 24 hour periods.

2PM April 12<sup>th</sup> to 2PM April 13<sup>th</sup> = day 1

**Answer:** 4 days

Add by counting forward on the clock from starting time to ending time.



From 9:35 to 10:00 is 25 minutes.

From 10:00 to 1:00 is 3 hours.

From 1:00 to 1:15 is 15 minutes.

25 minutes + 3 hours + 15 minutes = 3 hours 40 minutes

**Directions:** Complete each conversion.

**Multiply to convert to smaller units.**

3 hr = \_\_\_\_\_ min

3 hr x 60 min = 180 minutes

This example is converting to smaller units. (hours to minutes) so you would multiply.

**Divide to convert to larger units.**

180 sec = \_\_\_\_\_ min

180 sec ÷ 60 sec = 3 minutes.

This example is converting to larger units. (seconds to minutes) so you would divide.

## Measurement: Skill 5 - 16C

**Time:** Complete each conversion.

1. 2 hr = \_\_\_\_\_ min

2. 120 sec = \_\_\_\_\_ min

3. 240 min = \_\_\_\_\_ hr

4. 48 hr = \_\_\_\_\_ d

5. 5 d = \_\_\_\_\_ hr

6. 300 min = \_\_\_\_\_ hr

7. 7 min = \_\_\_\_\_ sec

8. 8 hr = \_\_\_\_\_ min

9. 12 wk = \_\_\_\_\_ d

10. 175 d = \_\_\_\_\_ wk

11. 48 hr = \_\_\_\_\_ d

12. 60 hr = \_\_\_\_\_ d \_\_\_\_\_ hr

13. 5 decades = \_\_\_\_\_ yr

14. 800 yr \_\_\_\_\_ centuries

15. 32 hr = \_\_\_\_\_ min

16. 1,380 sec = \_\_\_\_\_ min

17. 30 d = \_\_\_\_\_ wk \_\_\_\_\_ d

18. 150 sec = \_\_\_\_\_ min \_\_\_\_\_ sec

19. 649 min = \_\_\_\_\_ hr \_\_\_\_\_ min

20. 30 yr = \_\_\_\_\_ decades

21. 20 min = \_\_\_\_\_ sec

22. 12 hr = \_\_\_\_\_ min

23. 15 wk = \_\_\_\_\_ d

24. 2,555 d = \_\_\_\_\_ yr

25. 288 hr = \_\_\_\_\_ d

26. 629 hr = \_\_\_\_\_ d \_\_\_\_\_ hr

27. 75 mo = \_\_\_\_\_ yr \_\_\_\_\_ mo

28. 224 d \_\_\_\_\_ wk

29. 366 d = 1 \_\_\_\_\_ yr

30. 5 d 12 hr \_\_\_\_\_ hr

## Measurement: Skill 5 - 16C

**Time**

Add or Subtract.

31. 
$$\begin{array}{r} 2 \text{ hr } 12 \text{ min} \\ + 3 \text{ hr } 23 \text{ min} \\ \hline \end{array}$$

32. 
$$\begin{array}{r} 5 \text{ hr } 32 \text{ min} \\ + 1 \text{ hr } 43 \text{ min} \\ \hline \end{array}$$

33. 
$$\begin{array}{r} 5 \text{ hr } 45 \text{ min} \\ - 2 \text{ hr } 37 \text{ min} \\ \hline \end{array}$$

34. 
$$\begin{array}{r} 6 \text{ hr } 56 \text{ min} \\ - 3 \text{ hr } 43 \text{ min} \\ \hline \end{array}$$

35. 
$$\begin{array}{r} 3 \text{ hr } 15 \text{ min} \\ + 2 \text{ hr } 40 \text{ min} \\ \hline \end{array}$$

36. 
$$\begin{array}{r} 4 \text{ hr } 36 \text{ min} \\ + 2 \text{ hr } 34 \text{ min} \\ \hline \end{array}$$

37. 
$$\begin{array}{r} 7 \text{ hr } 38 \text{ min} \\ - 3 \text{ hr } 26 \text{ min} \\ \hline \end{array}$$

38. 
$$\begin{array}{r} 9 \text{ hr } 49 \text{ min} \\ - 5 \text{ hr } 42 \text{ min} \\ \hline \end{array}$$

39. 
$$\begin{array}{r} 5 \text{ hr } 32 \text{ min} \\ + 5 \text{ hr } 45 \text{ min} \\ \hline \end{array}$$

40. 
$$\begin{array}{r} 6 \text{ hr } 2 \text{ min} \\ - 2 \text{ hr } 35 \text{ min} \\ \hline \end{array}$$

41. 
$$\begin{array}{r} 6 \text{ hr } 17 \text{ min} \\ - 3 \text{ hr } 48 \text{ min} \\ \hline \end{array}$$

42. 
$$\begin{array}{r} 2 \text{ hr } 53 \text{ min} \\ + 2 \text{ hr } 49 \text{ min} \\ \hline \end{array}$$

Write the elapsed time.

43. 12:05 P.M. to 3:32 P.M.

44. 5:15 A.M. to 8:46 A.M.

45. 3:23 P.M. to 5:42 P.M.

46. 3:45 P.M. to 8:07 P.M.

47. 1:32 A.M. to 6:15 A.M.

48. 6:52 A.M. to 12:02 P.M.

49. 4:15 P.M. to 8:45 P.M.

50. 4:40 A.M. to 9:12 A.M.

51. 7:32 P.M. to 10:53 P.M.

52. 11:24 A.M. to 1:17 P.M.

53. 10:59 P.M. to 3:33 A.M.

54. 6:23 A.M. to 12:06 P.M.

Answers: Skill 16C, Grade 5

- |                 |                 |                 |                  |                  |                 |                 |
|-----------------|-----------------|-----------------|------------------|------------------|-----------------|-----------------|
| 1. 120 min      | 2. 2 min        | 3. 4 hr         | 4. 2 d           | 5. 120 hr        | 6. 5 hr         | 7. 420 sec      |
| 8. 480 min      | 9. 84 d         | 10. 25 wk       | 11. 2 d          | 12. 2 d 12 hr    | 13. 50 yr       | 14. 8 centuries |
| 15. 1,920 min   | 16. 23 min      | 17. 4 wk 2 d    | 18. 2 min 30 sec | 19. 10 hr 49 min | 20. 3 decades   | 21. 1,200 sec   |
| 22. 720 min     | 23. 105 d       | 24. 7 yr        | 25. 12 d         | 26. 26 d 5 hr    | 27. 6 yr 3 mo   | 28. 32 wk       |
| 29. 1 leap yr   | 30. 132 hr      | 31. 5 hr 34 min | 32. 7 hr 15 min  | 33. 2 hr 58 min  | 34. 3 hr 13 min | 35. 5 hr 55 min |
| 36. 7 hr 10 min | 37. 4 hr 12 min | 38. 4 hr 7 min  | 39. 11 hr 17 min | 40. 3 hr 27 min  | 41. 2 hr 29 min | 42. 5 hr 42 min |
| 43. 3 hr 27 min | 44. 3 hr 31 min | 45. 2 hr 19 min | 46. 4 hr 22 min  | 47. 4 hr 43 min  | 48. 5 hr 10 min | 49. 5 hr        |
| 50. 4 hr 32 min | 51. 3 hr 21 min | 52. 1 hr 53 min | 53. 3 hr 33 min  | 54. 5 hr 43 min  |                 |                 |