

Year 4: How long does it take? Durations, start times and end times: answers

Year 4 - Telling the Time and the 24-Hour Clock - Lesson 8.6

Answers. Final answers to the worksheet questions. Full step-by-step solutions for every question are free at websink.site/ks2-sats/maths/year-4/ch08-time/how-long-does-it-take-durations-start-times-and-end-times/

Exercise 8F Durations, start times and end times

Non-calculator

1 How many minutes are there from the first time to the second time?

(a) 9:10 am to 9:50 am

Answer: 40 minutes

(b) 3:20 pm to 3:55 pm

Answer: 35 minutes

(c) 11:05 am to 11:50 am

Answer: 45 minutes

(d) 6:15 pm to 6:45 pm

Answer: 30 minutes

2 These times go past the next o'clock. How many minutes are there from the first time to the second time?

(a) 4:40 pm to 5:15 pm

Answer: 35 minutes

(b) 8:50 am to 9:20 am

Answer: 30 minutes

(c) 1:35 pm to 2:10 pm

Answer: 35 minutes

(d) 7:45 pm to 8:25 pm

Answer: 40 minutes

3 How long is it from the first time to the second time? Write your answer in hours and minutes.

(a) 9:15 am to 11:40 am

Answer: 2 hours 25 minutes

(b) 2:30 pm to 5:10 pm

Answer: 2 hours 40 minutes

(c) 7:20 am to 10:05 am

Answer: 2 hours 45 minutes

(d) 12:45 pm to 4:15 pm

Answer: 3 hours 30 minutes

4 Each pair of clocks shows a start time and an end time. How long is it from the start to the end?



start



end

(a)

Answer: 1 hour 40 minutes



start



end

(b)

Answer: 1 hour 30 minutes



start



end

(c)

Answer: 1 hour 35 minutes

5 Work out the end time.

(a) Starts at 2:20 pm and lasts 45 minutes.

Answer: 3:05 pm

(b) Starts at 10:35 am and lasts 1 hour 30 minutes.

Answer: 12:05 pm

(c) Starts at 4:50 pm and lasts 2 hours 20 minutes.

Answer: 7:10 pm

(d) Starts at 8:15 am and lasts 3 hours 50 minutes.

Answer: 12:05 pm

6 Work out the start time.

(a) Ends at 4:30 pm and lasted 50 minutes.

Answer: 3:40 pm

(b) Ends at 11:15 am and lasted 1 hour 45 minutes.

Answer: 9:30 am

- (c) Ends at 6:05 pm and lasted 2 hours 20 minutes.

Answer: 3:45 pm

- (d) Ends at 1:10 pm and lasted 25 minutes.

Answer: 12:45 pm

7 How long is it from the first time to the second time? These are 24-hour times.

- (a) 13:15 to 15:50

Answer: 2 hours 35 minutes

- (b) 09:40 to 12:10

Answer: 2 hours 30 minutes

- (c) 16:25 to 18:05

Answer: 1 hour 40 minutes

- (d) 20:50 to 23:20

Answer: 2 hours 30 minutes

8 These times go over 12 noon or midnight. How long is it from the first time to the second time?

- (a) 11:30 am to 1:15 pm

Answer: 1 hour 45 minutes

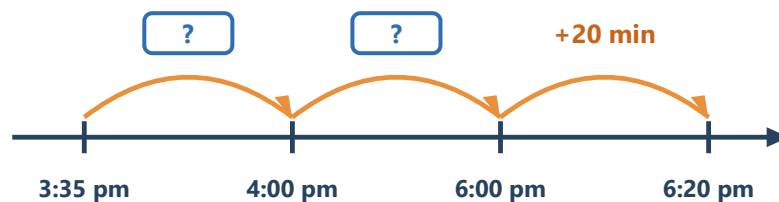
- (b) 9:45 pm to 12:20 am

Answer: 2 hours 35 minutes

- (c) 10:15 pm to 6:30 am

Answer: 8 hours 15 minutes

9 Look at the number line. (a) What is the first jump? (b) What is the second jump? (c) How long is it from 3:35 pm to 6:20 pm?



- (a) The first jump

Answer: 25 minutes

- (b) The second jump

Answer: 2 hours

- (c) The total time

Answer: 2 hours 45 minutes

10 A football match starts at 3:15 pm. There are two halves of 45 minutes, with a 15 minute break between them. What time does the match finish?

Answer: 5:00 pm

- 11** Priya does her homework from 4:50 pm until 5:35 pm. Leo does his homework from 5:05 pm until 5:55 pm.

(a) How long does Priya work for?

Answer: 45 minutes

(b) How long does Leo work for?

Answer: 50 minutes

(c) Who works for longer, and by how much?

Answer: Leo, by 5 minutes

- 12** A baby goes to sleep at 7:40 pm and wakes up at 6:10 am. How long does the baby sleep for?

Answer: 10 hours 30 minutes

- 13** Tom says, "From 3:50 to 5:20 is 1 hour 70 minutes." What mistake has he made? What is the correct answer?

Answer: 1 hour 30 minutes

- 14** A film starts at 7:45 pm and lasts 2 hours 20 minutes. Amira says it will finish before 10 pm. Is she right? Prove it.

Answer: No. It finishes at 10:05 pm

- 15 Challenge.** A night train journey takes 3 hours 45 minutes. It arrives at 00:10. What time did it leave? Write the time as a 24-hour time.

Answer: 20:25