MATHEMATICS · KINDERGARTEN TO GRADE 3

Elapsed time introduction

Difficulty level: Easy

Mathematics: Kindergarten to Grade 3

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Overview of the concept

This is how you work out how long something lasted by counting forward from when it started to when it ended. A cartoon that starts at 4:00 and ends at 4:30 lasted half an hour, and a bus ride works the same way. You count forward in chunks, first to the next hour, then to the end time. It is the basic skill behind reading a timetable or planning your afternoon.



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Worked examples

EXAMPLE 1

Q From 2:00 to 3:30, how much time passed?



SOLUTION

Start at 2:00.

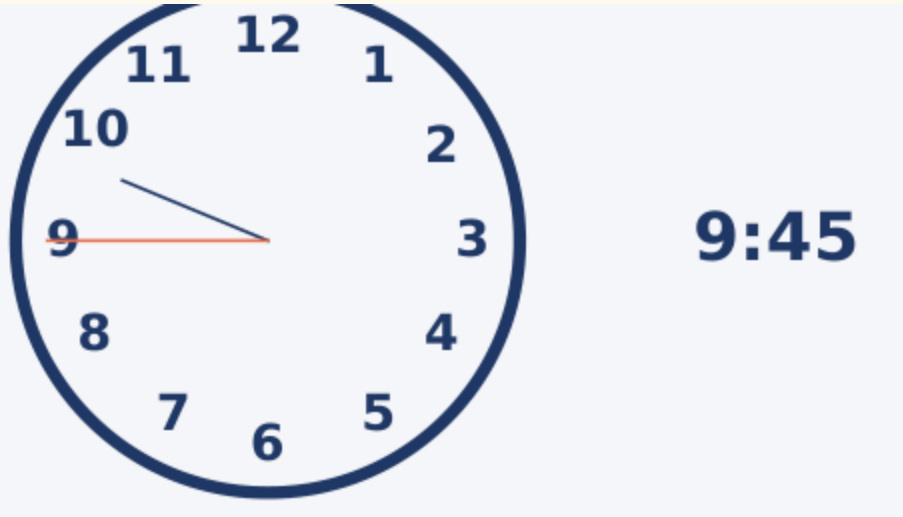
Count forward one hour to 3:00.

Then count forward 30 minutes to 3:30, so 1 hour 30 minutes passed.

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EXAMPLE 2

Q From 9:00 to 9:45, how much time passed?



SOLUTION

Start at 9:00.

Count forward in minutes to 9:45.

45 minutes passed.

Practice questions

1 Ria starts reading at 1:00 and stops at 2:00. How much time passed?

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2 **A bus ride starts at 4:00 and ends at 4:30. How much time passed?**

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3 **A baking tray goes in the oven at 10:00 and comes out at 11:15. How much time passed?**

A 1 hour 45 minutes

B 1 hour 15 minutes

C 45 minutes

D 2 hours 15 minutes

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4 A cartoon starts at 2:15 and lasts 45 minutes. What time does it end?

- A 2:45
- B 3:00
- C 3:15
- D 2:30

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5 Which lasted longer: a 45-minute cartoon or a 1-hour bus ride?

- A The cartoon lasted longer
- B The bus ride lasted longer
- C They lasted the same time
- D You cannot tell

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6 A film ends at 6:30 and lasted 1 hour 45 minutes. What time did it start?

- A 4:45
- B 5:45
- C 4:15
- D 5:15

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7 A walk ends at 5:00 and lasted 45 minutes. What time did the walk start?

- A 4:45
- B 5:15
- C 3:45
- D 4:15

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Why is the time from 1:45 to 2:15 equal to 30 minutes and not 70 minutes? Write one sentence.

A. Because 45 + 15 = 70, so 70 minutes passed

B. Because 15 minutes before 2:00 is 1:45, and 1:45 to 2:15 is 1 hour 30 minutes

C. The hour changes at 60 minutes, so 15 minutes to 2:00 plus 15 minutes after 2:00 is 30 minutes

D. Because 45 minutes plus 15 minutes is 60 minutes, so 1 hour passed

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Here are some train times:
Train A leaves 8:00 and arrives 9:20
Train B leaves 8:30 and arrives 9:30
Train C leaves 9:00 and arrives 10:05
Which train ride is the longest?

A Train A

B Train B

C Train C

D All three take the same time

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Which one is not 1 hour long?

A from 3:00 to 4:00

B from 3:30 to 4:30

C from 3:15 to 4:15

D from 3:00 to 4:30

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ANSWER KEY

1. 1 hour

2. 30 minutes

3. 1 hour 15 minutes

4. 3:00

5. The bus ride lasted longer

6. 4:45

7. 4:15

8. The hour changes at 60 minutes, so 15 minutes to 2:00 plus 15 minutes after 2:00 is 30 minutes

9. Train A

10. from 3:00 to 4:30

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