

MATHEMATICS



N.S. Yr. 4 P.88

Use all four operations to solve word problems involving time.

Equipment

Paper, pencil, calendar, clock.

MathSphere

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Concepts

Children should be familiar with the units concerned with time and understand times written as 12 hour clock times.

Children should be able to calculate the period between two times and add or subtract a period from a time.

Eg. How long is it between 3.25 and 4.15 ?

Eg. What time is it 45 minutes after 2.35 ?

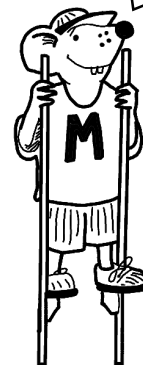
Eg. What time is it 35 minutes before 4 p.m. ?

Children should have a good grasp of the calendar and be able to calculate periods between dates.

They should also be able to explain how they arrived at their answers.

1. John started cycling at 4.24 and finished at 5.00. For how long did he cycle?
2. Sheila began her homework at 4.30 p.m. She worked for 40 minutes.
At what time did she finish?
3. Emil cycled for 50 minutes. He finished at 3.30 p.m.
At what time did he begin?
4. Simon began his dinner at 5.50. He ate for 30 minutes and then walked to his friend's house. The walk took 15 minutes.
At what time did he arrive at his friend's house?
5. Jessie likes to train at the local gym.
She uses the cycling machine for 40 minutes,
has a fifteen minute rest and then uses the
rowing machine for 35 minutes.
If she starts at 5.15, at what time does she finish?
6. It was Sam's birthday on 3rd May.
Six weeks later it was June's birthday.
What was the date of June's birthday?
7. The Trent family went on holiday on
4th July and returned on 1st August.
How many weeks were they away?
8. The zoo keepers begin bathing the elephant at 2.50.
The bath lasts 55 minutes. At what time do they finish?
9. Some children took part in a sponsored silence. They began at 9.20 and
were quiet for 70 minutes. They had a fifteen minute break and were
then silent for another 70 minutes.
At what time did they finish?
10. If January 5th is a Monday, what day of the week is February 7th?

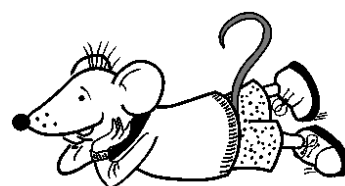
Who needs cycling machines when you have stilts?



Yes, and I'm doing my aerobics!!!!



Okay, guys, time for a rest!



1. Addy and Divvy decide to clean their bedroom. Addy begins at 3.20 and works for 25 minutes, then Divvy works for another 30 minutes. At what time does Divvy finish?
2. Subby started to eat his birthday cake at 4.50. He finished it at 5.40. How long did it take him to eat it?
3. Multy started playing hockey at 2.50. He played for 45 minutes and then walked to the shops. The walk took him ten minutes. At what time did he arrive at the shops?
4. Peter played his electronic game for 35 minutes. He finished playing at 8.20. At what time did he begin?
5. Michael visits his auntie every six weeks. He last visited her on 6th August. When will he next visit her?
6. A train leaves Greenbank Station and travels for 35 minutes. It stays in Ambershine Station for five minutes and then travels for another 45 minutes to Redtop Station. If it leaves Greenbank Station at 12.00, at what time does it arrive at Redtop Station?
7. How many weeks is it between 27th April and 11th May?
8. How many weeks and days are there altogether in the months of May, June and July?
9. Mary played her first CD at 7.20. This lasted for 65 minutes. She had a ten minute break and then played her second CD which lasted 60 minutes. At what time did the second CD finish?
10. John tried to break the world non-stop dancing record. He began at 4.00 p.m. on 30th June and finished at 6.00 p.m. on 2nd July. How long did he dance for?

Addy and Divvy cleaning their bedroom?
That will make a change!

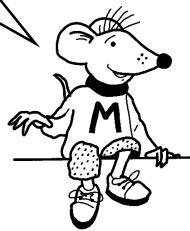


Just two days of dancing
- that's nothing!



1. Simon went to the hairdresser's at 3.10. He had to wait for 25 minutes and then his haircut took 20 minutes. At what time did he leave the hairdresser's?
2. Danny put his cake in the oven at 5.50. He took it out at 6.20.
How long was the cake in the oven?

All this talk of cake is making me feel hungry, Multy.



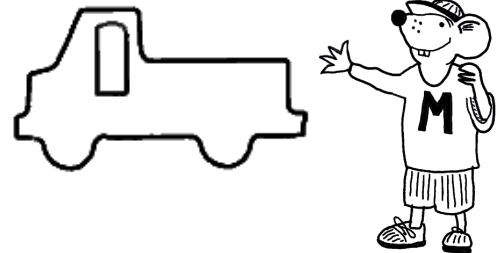
Me too, Multy.



3. A plumber took 3 hours and 20 minutes to fit a new sink. She finished at 5.10 p. m. At what time did she begin the job?
4. Chris and Sam played two games of chess. The first game took 45 minutes and the second took 55 minutes.
If they began at 2.30, at what time did they finish?
5. The school hockey team started their game at 4.30. They played two halves of 35 minutes with a ten minute break.
At what time did they finish?
6. How long is it between Christmas Day (25th December) and New Year's Day?
7. Mary started her examination revision on 5th May and finished on 6th June.
For how many days did she revise?
8. Mark begins writing a story at 1.20 and works for 40 minutes.
At what time does he finish?
9. A postman starts work at 4.30 a.m. He works for two sessions of three and a half hours with a half hour break.
At what time does he finish?
10. If December 12th is a Thursday, what day of the week is January 5th?

1. A P.E. lesson started at 9.40 a.m. and lasted thirty-five minutes.
At what time did the lesson finish?
2. Petra started cleaning her car at 2.37.
She finished at 3.15.
How long did she take to clean her car?
3. William spent 45 minutes writing a letter
and then ten minutes walking
to the post box. He started writing at 3.50.
At what time did he post the letter?
4. Mick takes 45 minutes to clean his fish tank.
If he finishes at 4.10, at what time did he start?
5. Daniel saved 10p a day from 5th August to 16th September inclusive.
How much money did he save?
6. Mary is going on holiday on 17th August. She must pay for the holiday
three weeks before she goes.
What is the last day on which she can pay?
7. A train should take 45 minutes, but is delayed by 12 minutes.
It normally leaves at 7.20. At what time does it arrive?
8. How many hours is it between 4.30 p.m. on Tuesday and
6.30 a.m. on Friday?
9. Jock took part in a junior triathlon. He swam for 17 minutes,
cycled for 42 minutes and then ran for 25 minutes.
The race started at 3.30.
At what time did Jock finish?
10. At 3.50 a.m. an alarm sounded in a bank. It took the robbers 13 minutes
to break into the bank and 12 minutes to steal the money.
The police arrived at 4.14 a.m.
Were the police in time to catch the robbers?
Explain your answer.

Petra cleaned her **car**. It's a
good job it wasn't this lorry
she had to clean!



Answers**Page 3**

1. 36 mins 2. 5.10 p.m. 3. 2.40 p.m. 4. 6.35 5. 6.45
6. 14th June 7. 4 weeks 8. 3.45 9. 11.55 10. Saturday

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1. 4.15 2. 50 mins 3. 3.45 4. 7.45 5. 17th September
6. 1.25 7. 2 8. 13 weeks 1 day 9. 9.35 10. 2 days 2 hours

Page 5

1. 3.55 2. 30 mins 3. 1.50 4. 4.10 5. 5.50
6. 7 days or 1 week 7. 32 days 8. 2.00 9. 12.00
10. Sunday

Page 6

1. 10.15 2. 38 mins 3. 4.45 4. 3.25 5. £4.30.
6. 27th July 7. 8.17 8. 62 hours 9. 4.54
10. Yes. $13 + 12 = 25$ mins. From 3.50 to 4.15 = 24 mins.