

## Number Nest Weekly Challenge

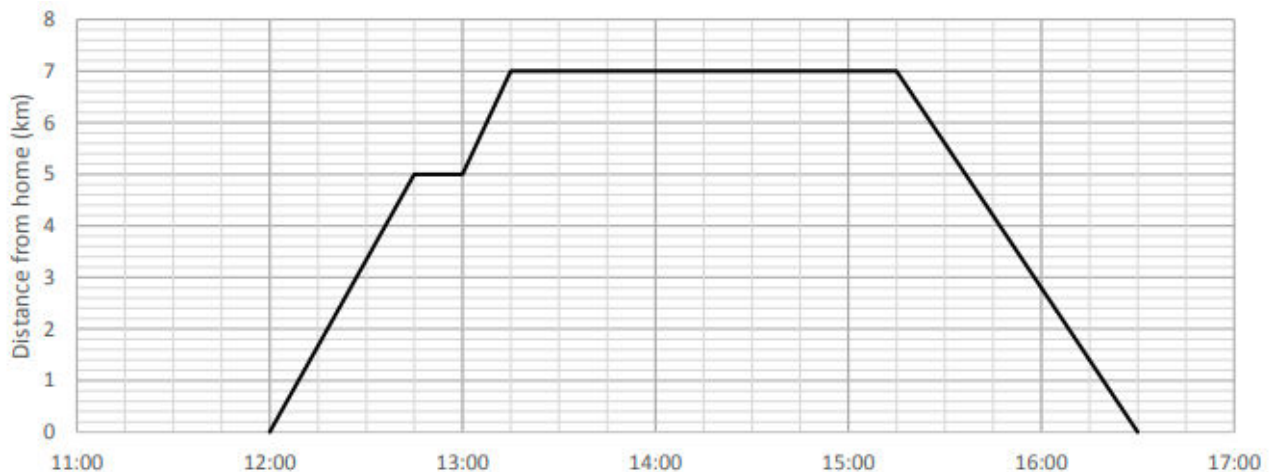


### Warm up

1. Write down all the factors of 36
  2. 6 is a multiple of 18. True or false?
  3. Find a number that is a factor of both 18 and 24.
  4. Find two prime numbers that add to make another prime number.
5. Round the following numbers to the nearest whole number.
- a) 1.34
  - b) 6.99
  - c) 7105.09
  - d) 687.49
6. Round the following numbers to 1 decimal place.
- a) 1.39
  - b) 780.01
  - c) 8641.36
  - d) 2.99

### Activity

Zixuan cycled to his friend's house. He stayed at his friend's house to watch a movie and then started cycling back. On the way to his friend's house, he stopped at the shops to buy some snacks. The distance-time graph below shows his journey.



- a) What time did Zixuan arrive at his friend's house?
- b) How long did Zixuan stop at the shops?

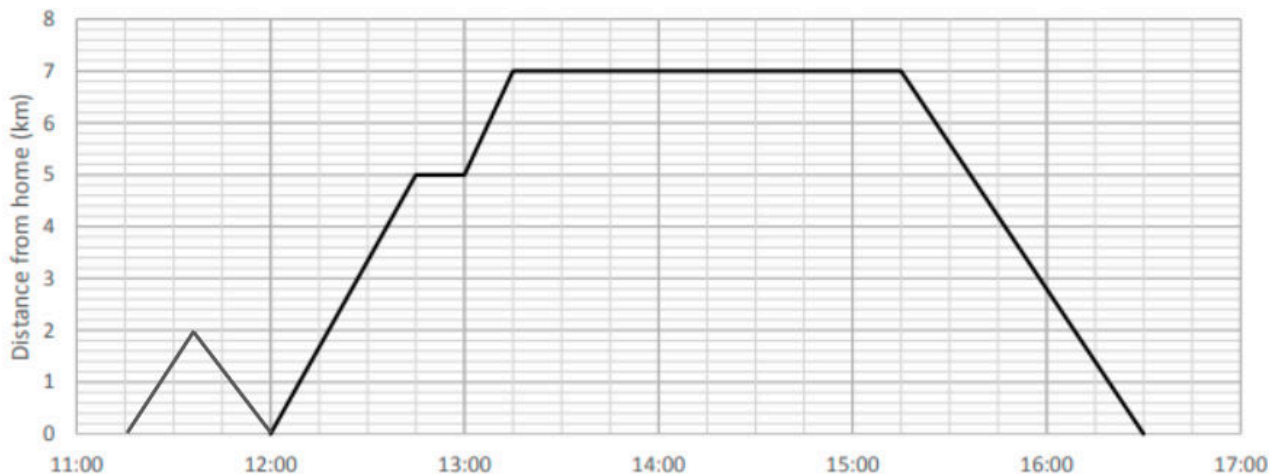
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- c) How far away is Zixuan's friend's house?
- d) How far did Zixuan cycle in total?
- e) How fast did Zixuan travel to get back home after leaving his friend's house?

Hint

$$\text{Speed} = \frac{\text{Distance}}{\text{Time}}$$

Now consider this distance-time graph.



- f) What happened at the start of the journey and why?
- g) Write your own story to reflect this graph. Remember to think carefully to make sure your story matches the data of the graph.

### Puzzle

Fill in the squares so that the numbers in each row and column add up to the printed sums on the right and bottom.

	2	3		8
6		8	2	19
3			1	20
7	5	4		23
19	17	24	10	



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