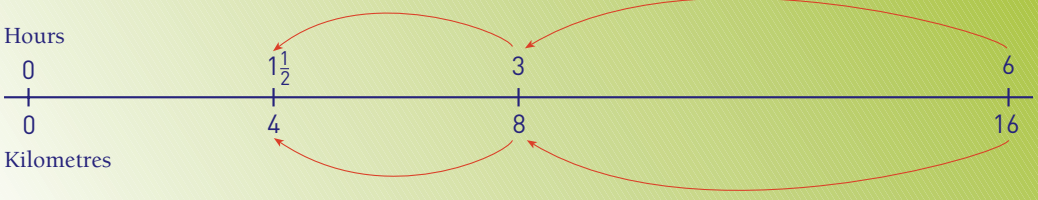
Numbers on the Line

You need ☑ a classmate

Activity

Kaylee is using a double number line to help her solve some questions she has about her school camp. Look at how she solves this problem:

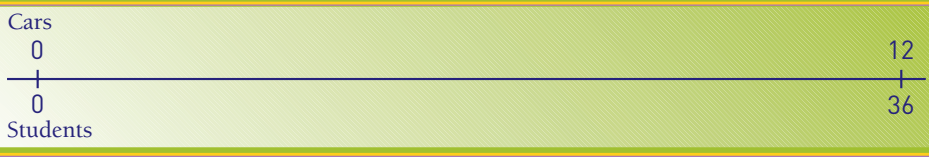
"When I go tramping with my dad, it takes us 6 hours to tramp 16 kilometres. If my group walks at the same pace on our tramp, how many hours will it take us to walk 4 kilometres?"



By halving 6 and 16, Kaylee works out that her class will take 3 hours to walk 8 kilometres. Half of 8 is 4, so she halves the 3 hours and gets $1\frac{1}{2}$ hours as her answer.

Work with a classmate and use Kaylee's strategy to work out these problems. After the first problem, you will need to make up your own double number lines.

1. If 12 cars are needed to get 36 students to the end of the road with their packs, how many cars will be needed to get 9 students to the end of the road?



2. If 140 students eat 16 packets of biscuits for supper at camp, how many packets of biscuits will 35 students eat?

3. It takes 24 jugs of water to give 120 students at camp a glass of water with their dinner. How many jugs of water will be used at a table where 15 students are sitting?

4. 1 large potato is enough to serve 3 students.
   a. How many students will 18 large potatoes serve?
   b. There are 90 students. How many large potatoes should be cooked for them?