

Challenge Time

Activity

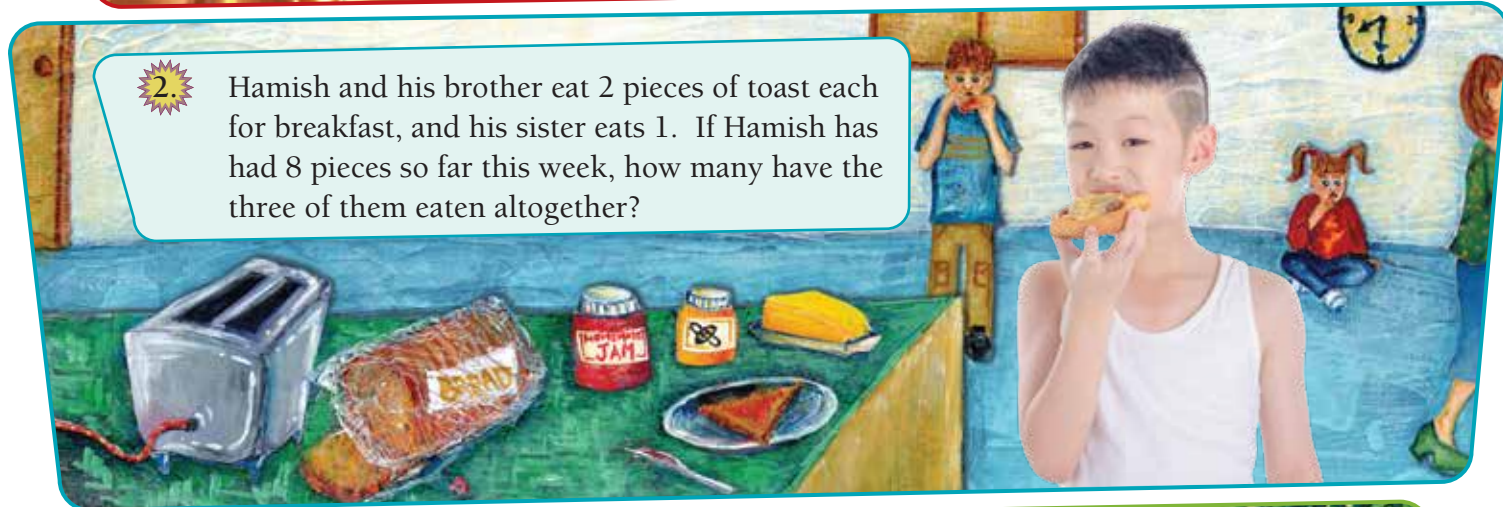
1. A car uses 10 litres of fuel to go 100 kilometres. How much will it need for 450 kilometres?



I could use a double number line to solve this!

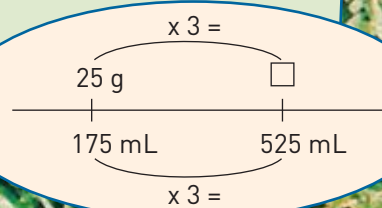


2. Hamish and his brother eat 2 pieces of toast each for breakfast, and his sister eats 1. If Hamish has had 8 pieces so far this week, how many have the three of them eaten altogether?



3. Piri is making a jug of hot chocolate drink for his team. The instructions on the back of the packet say to mix 25 grams of powder with 175 millilitres of hot water.
- How many grams of powder would he need for 525 millilitres of water?
 - How many for 1.050 litres?

Piri uses a double number line to work it out:



Hmm. If I have to multiply 175 millilitres by 3 to get 525 millilitres, then I'll have to do the same with the 25 grams. That's pretty straightforward.

Now, can I use 525 millilitres to get to 1.050 litres?

- Use a double number line to work out how many litres he could make with:
 - 200 grams of chocolate powder
 - 325 grams of chocolate powder.

4. Josh, Ani, and Philip have enough food to last 9 people for 5 days. How long should the food last the 3 friends?

5. Mele, Ken, and Hineata share a bag of lollies. Hineata gets half, and Ken gets a third. If Mele gets the remaining 4 lollies, how many were there altogether in the bag?



6. If 1 skateboard has 2 trucks and 4 wheels, how many skateboards could you make if you had 17 trucks and 31 wheels?

7. A drink machine gives three 20 cent coins and one 10 cent coin as change when you put in a \$2 coin. Jack is buying drinks for himself and his friends. How much money did he put in, in \$2 coins, if he got twenty-one 20 cent coins in his change?

8. At Top Chook Takeaways, every combo box has 2 pieces of regular chicken for every 1 piece of spicy baked chicken. How many pieces of each type of chicken would you get in a 27-piece box?



9. 150 millilitres of drink concentrate makes 2.5 litres of drink. Use a double number line to solve each question below.
- How much concentrate would you need to make 15 litres of drink?
 - How much drink would 600 millilitres of concentrate make?
 - How much drink would 60 millilitres of concentrate make?
 - How much concentrate would you need to make 4 litres of drink?