Problems - Number Sense

A lumber company produced 1000 wooden boards. Unfortunately each board was 2.1 mm too long and that amount had to be cut off from each board. In all how many metres of wood were cut off?

0.6 of the people in a village of 1500 are participating in a village clean up. How many people didn’t participate?

A school will donate $400 for every $1000 raised by a charity. How much money would the company donate if the charity raised $52 000?

A pair of numbers has a sum of 100. One number is a multiple of 3. The other is a multiple of 11. Find as many pairs as you can.

Waseem entered 70 240 into his calculator. He divided it by another number and 702.40. What number did he divide by? What number could he have multiplied by to get the same answer?

The average person eats 829 kg of food each year. If we say that a person eats 1000 equal meals over a year, how much would each meal weigh?

Our school of 450 students is divided into three divisions: Primary/kindergarten, junior, intermediate. P/K has 0.5 of the students, J has 0.3 of the students. How many students are in each division?

The Hobbit has 300 pages. We have read 0.7 of the book so far. How many pages are left?

If we read 10 pages a day, how many days will it take us to finish the book?

Melanie measured the length of her step as 50cm. Sameela measured her step as 0.9 of Melanies. They each walked 200 steps. How many metres did they walk?

The perimeter of a square is 1600 cm. How many metres long is each side?

From Barrie t Toronto is 80 km. How many cm is that? Canada’s Wonderland is 0.8 of the distance to Toronto. How many kilometres from Barrie is Canada’s Wonderland?

Length of a street is 0.92km. How many metres long is the street? How many centimetres long is it?

A community wants to build a wall around its’ square town. One side of the town is 3 000m. They have enough material for 10km of wall. Can they complete the wall?

6 x 3 +6 ÷ 2 + 14 - 2 x (3 x 3) = 17 Explain how you have to solve this equation to make it true.

Write an equation for the following: Kaitlin goes to the store. She buys 2 loaves of bread that each cost $3.00. She buys 3 jars of jam for $4 each. How much did she spend?

A candy company named Kostaco makes 7 514 piece of candy every week. They package them in bags of 26 candies each. Each bag sells for $3. If they sold all their bags, how much money could Kostaco make in a year?

A charity hopes to raise $8 832 in order to supply a soup kitchen with food for a week. On average it costs $24 a week to feed one person. How many people could they feed? How much money would a soup kitchen need to feed 45 people for two years? (Each year has 52 weeks.)

A band is playing a concert three nights in a row. Each ticket costs $74. The first night 6 281 people came. The second night 7 940 people came. The third night 5 528 people came. How much money did the band make altogether?

At Hardwood Hills, Jackson explored $\frac{2}{5}$ of the trails. Sameela explored $\frac{1}{3}$ of the trails. Melanie explored $\frac{1}{4}$ of the trails. Put the students in order from least amount of trails explored to the most.

Melanie’s airplane went 20m. Ellie’s airplane flew $\frac{4}{5}$ as far as Melanie’s. Kosta’s plane flew $\frac{6}{10}$ as far as Melanie’s. Who’s plane flew farther, Ellie’s or Kosta’s?

Norma paid for $\frac{1}{4}$ of her One Direction tickets. She took a friend who paid for $\frac{3}{8}$ of the tickets. Norma’s parents paid the rest. What fraction did her parents pay?

Waseem is doing the following problem: A class has 25 students. 20% of them are not going on a field trip. How many are going on the trip? Waseem’s answer is 5. How did he get that number?

Nick ate $\frac{1}{5}$ of the candy. Kosta ate $\frac{3}{10}$ . Megan ate $\frac{1}{4}$ . What percent of the candy was left?

Gandalf needs to make a potion that has a ratio of 7 toad brains to 9 orc feet. He has 54 orc feet lying around. How many toad brains does he need?

Our school has a ratio of 5 boys to 6 girls. Our first year we had 210 girls. How many boys did we have. We have now doubled in size. How many students are there?

The ratio of developed (wealthy) to developing countries in the world is 6:25. There are approximately 200 countries in the world. How many countries are developing? The ratio of developed (wealthy) to developing countries in the world is 6:25. There are approximately 200 countries in the world. How many countries are developing? What percentage of the world’s countries is that?

Maddy took a car ride that lasted for 3 hours. She noticed that the distance on the car’s odometer said 330 km for her trip. How many kilometers per hour was she travelling?

Malcolm, Andrew, Emmy, Emily and Ibrahim went to see a movie. They all paid together which cost $65.55. Write the unit rate to show the cost for each person.

We made a mixture of bags of cement to water (L) that has a ratio of 6:14. We have 36 bags of cement. How much water do we need? What percent of the mixture is water?