

1. Large Numbers

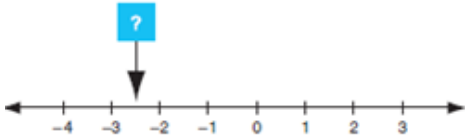
The population of Australia is 22 993 670.

a) Round this number to the nearest million.

b) Write this number in scientific notation.

2. Integers

What number is shown on this number line?



3. Number Skills

This label was on a juice bottle.

	Per bottle	Per 100 mL
Energy	648 kJ	182 kJ

What is the size of the bottle of juice to the nearest mL?

4. Probability

There are 15 cards in a set. 3 have fish pictures, 2 have butterflies on them and the rest have a picture of a flower.

What is the probability of selecting a card with a flower on it?

5. Average

The table shows the time John walked his dog each night last week.

TIME SPENT WALKING THE DOG	
Day	Time
Monday	45 minutes
Tuesday	50 minutes
Wednesday	1 hour
Thursday	62 minutes
Friday	43 minutes

What is the average time he walked his dog last week?

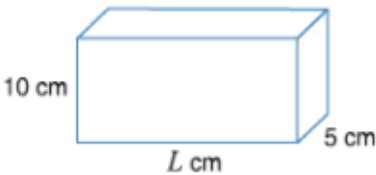
6. Ratio

The ratio of Bill's age to Sue's age is 3:2.

Bill is 18 years old. How old is Sue?


7. Volume

The volume of this rectangular box is 600 cm^3 . What is the length, L, of the box?

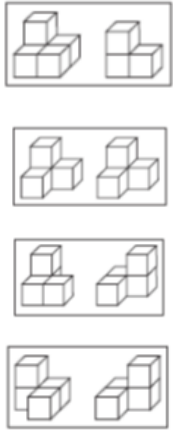


8. Measuring

This jug has some milk in it. I am going to add 500 mL more. How many mL will be in the jug now?



9. 3-D



Which set of two blocks cannot be joined together to make a cube?

10. Triangles

Draw an isosceles triangle. Show markings.

Bonus: Include possible angle sizes in your diagram. (Not to scale)

11. Substitution

If $w = 6$, what is the value of $2w$?

12. Solving Equations

$$3x - 15 = 12$$

What is the value of x ?