

**1. Large Numbers**

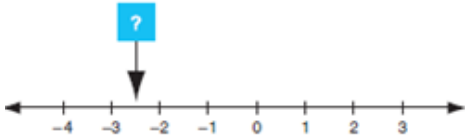
The population of Australia is 22 993 670.

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?

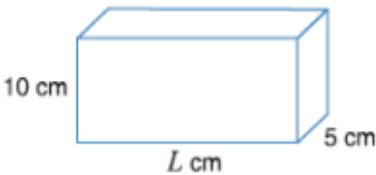
**6. Ratio**

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  $600 \text{ cm}^3$ . What is the length,  $L$ , of the box?

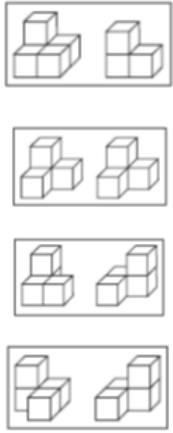


**8. Measuring**

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  $x$ ?