Problem Smorgasbord

ACTIVITY

1. A year 8 class has 3 more boys in it than girls.
Altogether there are 29 in the class.
How many girls are there?

It can't be 1 girl and 4 boys.
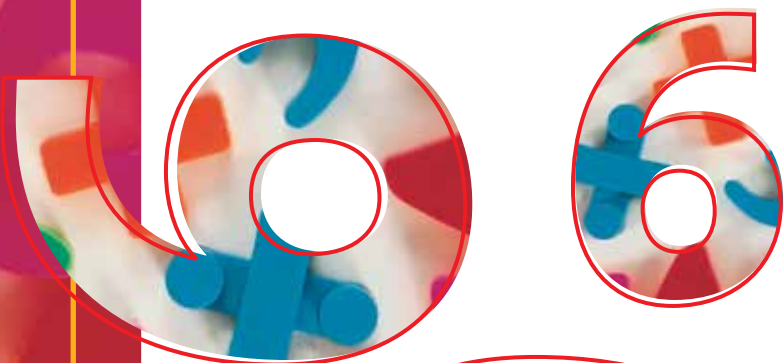That's only 5 children altogether.

2. The length of a rectangular swimming pool is 15 metres.
If its perimeter is 48 metres, how wide is it?

The length plus the width
is half the perimeter.

3. Daniel, his dad, and his grandad were waiting for the test match
to begin on TV. One of them said, "If you add 6 to my age, then
divide by 6, and then subtract 6 from the result, the answer is 6."
Who is talking?

Hint: My dad's 30. Check what happens
if he's the one who's talking.

4. Huani earns 3 times more delivering pamphlets than Kiri does. Altogether, they earn $24. How much do they each earn?

Compare our earnings.

Kiri's ▢

Huani's ▢ ▢ ▢

5. Bill has a box of 24 chocolates that he passes round a group of his friends. He and his friends have 3 chocolates each. If there are 9 chocolates left, how many people are there?

How many chocolates are shared among the group?

6. Jeremy's class is having a round-robin, quick-draw tables tournament. Each person in the class has to face each other person once only (to either ask or to answer a question). How many questions need to be written if there are 30 in the class?

When there are only 3 in the class, each student faces 2 other students.

But there are only 3 face-offs altogether, not 6.

Peter

Tomu

Sylvia