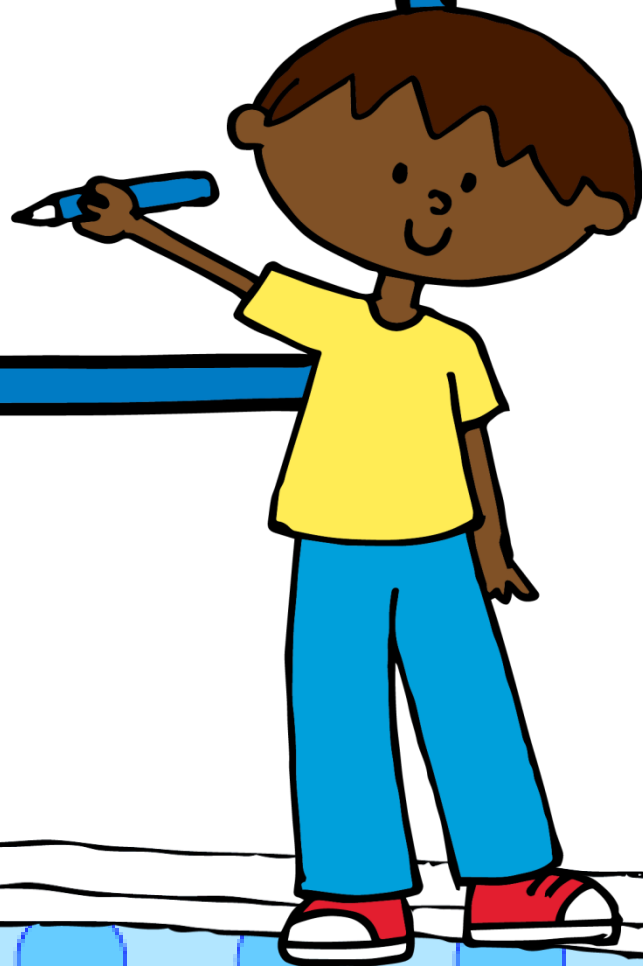


Simplify

~~24000~~ Can using
smaller numbers

~~24~~ ÷ 3 help me solve a
problem?

$$24000 \div 3 = ?$$
$$24 \div 3 = 8$$
$$= 8000$$



Sometimes we can use smaller numbers to simplify a problem.

The Problem: At Game 1 of State of Origin, there were 24 000 spectators in the crowd. If about one third of all the spectators cheered for New South Wales, how many Queensland spectators were there?



Step 1: Change larger numbers into smaller, more manageable numbers.

Change 24 000 to 24

Step 2: Complete problem with the smaller numbers. Instead of working out one third of 24 000 work out one third of 24.

$$\frac{1}{3} \text{ of } 24 = 8$$

To find the number of Qld supporters work out

$$24 - 8 = 16$$

Step 3: Use the same method with the larger numbers

$$\frac{1}{3} \text{ of } 24\ 000 = 8\ 000 \text{ NSW supporters}$$

$$24\ 000 - 8\ 000 = 16\ 000 \text{ Qld supporters}$$