

THE POWER OF TEN

Learning Objective:

Multiply and divide integers and decimal fractions by 10, 100 and 1000.

Intended Outcome:

Improved fluency in mentally multiplying and dividing numbers by 10, 100 and 1000.

Materials:

1. 2 x ten-sided dice
2. 1 x six-sided dice
3. 'Power of Ten' dice conversion chart (provided on the next page)

Game Objective:







To be the first team with all members sitting down.

Instructions:

This game is to be played in two equal teams.

1. All students start the game standing up. The teacher rolls the ten-sided dice to give the number (e.g. '8') and then the six-sided dice to give the operation (as per Conversion Chart – e.g. rolls a '5' which gives a ' $\div 100$ ' operation).
2. Starting with a member of Team 1, each student must complete the given Power of Ten operation correctly. In the above example, the student selected must answer '0.08', as this is the answer to ' $8 \div 100$ '. Once they have answered correctly, they may sit down.
3. This game is to be played quietly, each chosen student answering the question on their own. If there is calling out, a member of that team must stand up again.
4. First team to have all members sitting down is the winner!

Power of Ten Conversion Chart

DICE ROLL	POWER OF TEN OPERATION
	$\times 10$
	$\times 100$
	$\times 1\ 000$
	$\div 10$
	$\div 100$
	$\div 1\ 000$