## ACTIVITY

## Space Marauders

Kimberley plays a computer game called Space Marauders. In this game, she has to protect her home space station from alien ships that are on attack.

She scores 10 if she hits a fighter and 100 if she hits a mother ship that carries fighters. If a fighter hits her space station, she loses 20, and if she herself is hit, the game is over.

A game is recorded using the following code:

	S S	SHOOT FIGHTER	10 POINTS
	M	SHOOT MOTHER SHIP	100 POINTS
	€ H	SPACE STATION HIT	- 20 POINTS
	<b>1</b> 0	PLAYER HIT	GAME OVER

S S S S M S S H S M H S 0

She worked out her score like this:

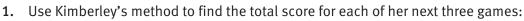
8S + 2M + 2H

= (8 x 10) + (2 x 100) + (2 x -20)

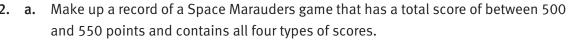
= 80 + 200 - 40

= 240





- a. SSSSSSMSMHHSSSHMO
- b. SSMSHSMSSSSMSSHSMSSSO
- c. SSSHSSMSSSMSSSSMSSSSMSO



**b.** Write down another way to record this total score.