

Name:	
Class:	Date:

Fun with Sums

An activity of "Clearing space debris"

Fifty years ago, would anyone have imagined that the vast mysterious outer space could become cluttered with man-made objects one day? "Clearing space debris" (page 12-13, What's Up

Dood the outi		•	i space.	
of this sheet.	cle care	fully. In pairs, solve the following proble	ms. Do your working on	the reverse
•	-	ebris X is moving at 28,920 km/h and a chart the speed of debris X is seven times		ng at 120
i. State the ra	itio of th	e speed of bullet Z to the speed of space	debris X. ANSWER:	
ii. Find the sp	peed of l	oullet Z, in m/s (correct to 3 decimal plac	ces). ANSWER:	
iii. Write the	speed o	f car Y as a fraction of the speed of space	debris X. ANSWER:	
2. The follow	ving tab	le lists the estimated number of objects o	currently orbiting the ea	rth in space
	Item	Objects orbiting the earth in space	Number of objects	
	a.	Space debris smaller than 1cm	170 million	
	b.	Space debris as big as 10cm	Half a million	
	c.	Space debris larger than 10cm	21,000	
	d.	Operational satellites	1,419	
		n the box below to represent the above in		c, and d.