Make the multiples

Children draw on their knowledge of multiples of 2 and 5 to create these using digit cards 0-9.

Skill practised:

• Recognising multiples of 2 and 5

Conjecture: It is possible to use all the digits 0 to 9 to make multiples of 2 or 5.

What to do:

Children play in pairs.

- 1. You need a set of 0 to 9 digit cards.
- 2. Use the digit cards in pairs to make two-digit numbers. Each number must EITHER be a multiple of 2 or multiple of 5. Can you do this and use ALL of the cards? How many numbers do you need to make?
- 3. Can you find a different way?
- 4. Can you make all the numbers multiples of 5? Why/why not? Can you make ALL of the numbers multiples of 2? Why/why not? Can you make at least one of each?
- HINT: Which digits need to be in the 10s place? Why?

Aims:M- To understand how to identify multiples of 2 and 5C- To use digit cards to make multiples of 2 and 5N	finimum number of alculations expected I/A
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$(2 + 7) = x \ cm^3 \ \sqrt{2} \div \ \frac{1}{2} \ \sqrt{3} \ > \ m^2 + \% \ < \frac{5}{6} \ - \ cm \ ? \ x \div \frac{1}{3}$			
*	Make the multiples	••	
m²		W	
^	0 1 2 3 4 5 6 7 8 9	X CIM3	
w		1/2	
-1-	1. Take a set of 0 to 9 digit cards.	•1•	
4	2. Use the digit cards in pairs to make two-digit numbers.	m	
cm³	Each number must ell HER de a multiple of 2 or multiple of 5.	×	
*	$\begin{bmatrix} 2 & 4 \end{bmatrix} = \begin{bmatrix} 3 & 5 \end{bmatrix}$	× m	
W		+	
-1.	Can you do this and use ALL of the cards? How many numbers do you need to make?	%	
×	3 Can you find a different way?	~	
E	A Can you make all the numbers multiples of 52 Wby/wby pet2	5%	
1	4. Can you make all the numbers multiples of 5? Why/why not? Can you make ALL of the numbers multiples of 2? Why/why not?		
2%	Can you make at least one of each?	cm	
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%		*	
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т ² ш		CIM3	
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3 1/2		v	
сm		m,	
×		+	
W		%	
¢.,	© Hamilton Trust investig_mult-div_3307	N	
4	$+? = x \ cm^3 \ \sqrt{2} \div \ E \ \sqrt{3} > m^2 + \% < \frac{5}{6} - cm? + \frac{5}{7}$	3	