

All at 6s and 7s	Skills practised:
<i>Children try to make every number to at least 10 using 6s, 7s and sometimes 2 and 3, and any operations.</i>	<ul style="list-style-type: none"> Using knowledge of the order of operations and brackets to carry out calculations
Conjecture: <i>It is possible make all the numbers from 1 to 10 using 2, 3, 6 and 7 and any operations and brackets.</i>	
<p>What to do:</p> <p><i>Children work individually or in pairs.</i></p> <p>1. Use the numbers 2, 3, 6 and 7 and any operations to make every number from 1 to at least 10.</p> <p>But there are some rules!</p> <p>a) You don't have to use 2 or 3 each time but you must use both 6 and 7 in each calculation! So to give $5 = 7 - 2$ is not OK, but $5 = 7 - (6 \div 3)$ is OK.</p> <p>b) You can use 6 and 7 as many times as you like in each calculation but can only use 2 or 3 once. So $2 = 2 \times (7 - 6)$ is OK, but $2 = 6 - 2 - 2$ is not.</p> <p>c) Remember to follow the rules about the order of operations and using brackets.</p> <p>2. Keep a record of each answer:</p> <p>1 = 7 – 6</p> <p>2 = 2 × (7 – 6)</p> <p>3 =</p> <p>See how far you can get!</p>	
<p>Aims:</p> <ul style="list-style-type: none"> – To use knowledge of order of operations and brackets – To use earlier answers to find later ones 	<p>Minimum number of calculations expected</p> <p>10</p>

All at 6s and 7s

- Use the numbers 2, 3, 6 and 7 and any operations to make every number from 1 to at least 10.

But there are some rules!

- You don't have to use 2 or 3 each time but you must use both 6 and 7 in each calculation! For example
 $5 = 7 - 2$ is not OK, but
 $5 = 7 - (6 \div 3)$ is OK.
- You can use 6 and 7 as many times as you like in each calculation but can only use 2 or 3 once.
 So $2 = 2 \times (7 - 6)$ is OK, but
 $2 = 6 - 2 - 2$ is not.
- Remember to follow the rules about the order of operations and using brackets.

- Keep a record of each answer.
See how far you can get!

	$1 = 7 - 6$
	$2 = 2 \times (7 - 6)$
	$3 =$

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2. Keep a record of each answer.
See how far you can get!

$$1 = 7 - 6$$
$$2 = 2 \times (7 - 6)$$
$$3 =$$