One to one

Jumpers

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Level: Year 4 and year 8
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Resources: Number line, frog, rabbit, and kangaroo blocks, plastic coloured markers, tunnel (to hide parts of number line).



Questions/instruction	ıs
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Approach:

% responses y4 y8

recording. This is a number track. It is like a number line that starts at 0, and it could go on forever.

Double check that your camera is

Set up number track and show animals.

This frog is a three-jumper. Starting at 0 it can jump three numbers at a time. It can make one jump and land on this number [put on 3] or two jumps and land on 6 [place marker on 3 and place frog on 6] or three jumps to 9 [place marker on 6 and place frog on 9].

1. What is the next number the jumping frog would land on? Put a marker on the 9 then put the frog where you think it would land. 12 94 100

If student does not put the frog on 12, assist them with a correction, explaining why it would be 12. Place the tunnel to cover the numbers 14 to 24. Remember to write down answers.

- 2. Now I've put a tunnel over part of the number track. What is the next number the frog would land on in the tunnel?
 3. What is the first number it would land on when it came out of the tunnel?
 4. Altogether, how many jumps from zero would the frog have made be
 - fore it landed there?91750

Clear the sumber line to start again	% rest	onses
This rabbit is a 5 jumper, and the kanga- roo is a 6 jumper.	y4	y8
Jump rabbit from 0 to 5 — place marker, then jump it onto 10 and leave it there. Jump kangaroo from 0 to 6 — place marker, then jump it onto 12 and leave it there.		
Students are NOT to use the blocks for the following questions.		
5. If they both keep jumping, there are some special numbers that both rab- bit and kangaroo will land on together. What is the first number that they		
would land on together? 30	21	76
6. How many jumps will rabbit have made to reach [say the number given by student], starting from zero? 6	21	71
7. How many jumps will kangaroo have made to reach [say the number given by student], starting from zero?	20	70
8. If they both keep on jumping, there is another number that both the rabbit and the kangaroo will land on that is the same number. What number do you think it will be? 60	12	66
How did you work that out? correct conceptual or computational strategy	25	76
Put all 3 animals on 30. Place the tunnel to cover the numbers 14 to 24.		
9. If each animal started at 30 and made 3 jumps backward, only one animal would get right through the tunnel. Work out which animal that would be and tell me.		
kangaroo		90
10.What number would that animal land		
on? 12		70
Commentary		

Year 8 students succeeded well with most parts of the task. Year 4 students struggled when significant computation or thinking was required