

Maths Gym



Summer 2 - Week 2

Monday

Exploring Patterns

Can you complete the pattern?



What shape comes next?

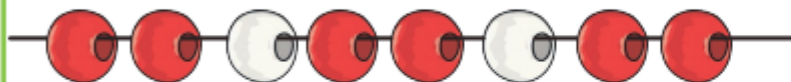
Which picture would come next? Circle it.



Which brick would come next in the pattern? Circle it.



Which bead would complete the pattern? Circle it.



1 2 3 4 5
6 7 8 9 10



Tuesday

The Activity

Put three bowls over one, two and three jewels.

Quickly lift and replace one bowl and challenge children to say how many there are.

Swap the bowls around rapidly for a minute. When you stop, can they point to the bowl with three?

Lift the bowl and see if children can instantly say whether they are right.

Encouraging mathematical thinking and reasoning:

Describing

Can you see how many there are?

How did you see them?

Reasoning

How did you know there were three?

Opening Out

Can you make some different patterns with four jewels?

How can you arrange five jewels so you can quickly see there are five?

Recording

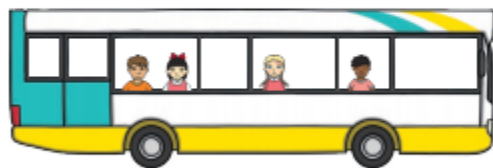
Draw, stamp, sticker or take a photo for your favourite patterns for 5.

You don't have to use jewels – it can be anything as long as they are the same size.

Wednesday

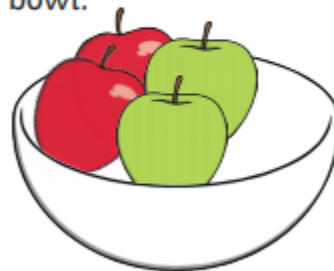
Adding More

Add 2 more children to the bus.



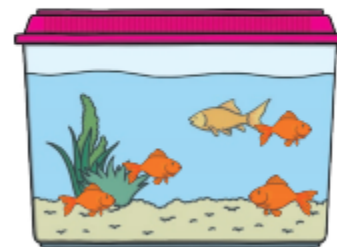
How many children are there?

Add 1 more apple to the fruit bowl.



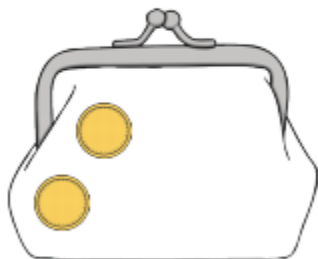
How many apples are there?

Add 4 more fish to the fish tank.



How many fish are there?

Add 3 more coins to the purse.



How many coins are there?

1 2 3 4 5
6 7 8 9 10



Thursday

Enjoy the story on this link

<https://www.youtube.com/watch?v=BXtu90JnDkM>

The Activity

Read and enjoy The Doorbell Rang a number of times with the group. Acting out the story involves children in sharing a number of cookies between different numbers of people (using salt dough cookies and paper plates).

Encouraging mathematical thinking and reasoning:

Describing

Tell me about this picture (showing children about to take cookies from the plate.) What do you notice? What do you wonder?

Have you ever shared any cookies? Tell me about what happened. How many people were there? Here are $\frac{2}{3}$.. toys. Tell us how you share them out so they all have the same number.

Reasoning

What will happen if another person turns up now? Can you explain why you think that? How do Sam and Victoria know that there will be $\frac{6}{3}/\frac{2}{1}$ cookies each? Shall we act it out? Have they all got the same? How do you know? Can you prove it? Can you show me?

Opening Out

What do you think the children should / might do now? (especially at the last doorbell). I wonder what would happen if . . . there were a smaller number of cookies? An odd number of people at the door? Or a number giving remainders? e.g. 10 shared between 3 or 4.

Recording

Would you like to do a drawing/picture to show how Sam and Victoria could share out the cookies fairly? To show how you have shared them?

Friday

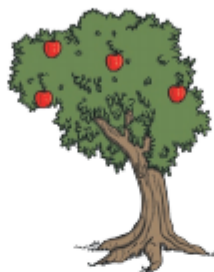
Taking Away

There were 3 cupcakes on the plate. 1 was eaten.



How many were left?

There were 4 apples on a tree. 2 were picked.



How many were left?

Can you work out the answer?



$- 3 =$

Can you work out the answer?



$- 2 =$

1 2 3 4 5
6 7 8 9 10

