

## Represent Numbers to 20 Using Pictures

### Adult Guidance with Question Prompts



Children represent numbers using pictures. In this activity, they count the number of objects in a picture and write a numeral or numerals to represent that number. They read a number and draw a picture to represent it. It may help to have counters or base ten blocks to physically count out before they draw. Encourage them to check their drawing, touching each dot as they count. It will be easier to do this if they draw their dots in lines rather than randomly arranged.

What number can you see written here?

Can you show me that many fingers?

Can you count out that many blocks?

Can you draw that many dots?

How can you check you have drawn the right amount?

Can you count aloud as you draw?

Can you count again to check?

Do you think it is easier to count lines of dots or randomly drawn dots? Why?

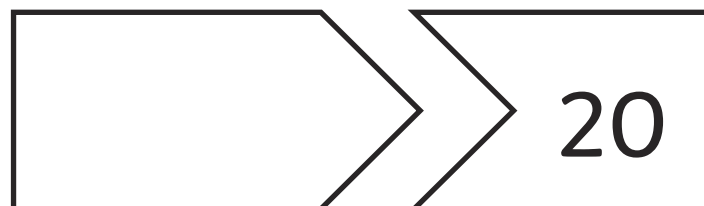
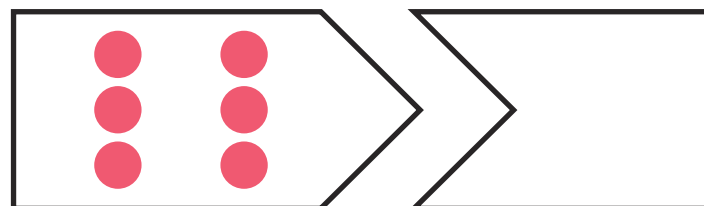
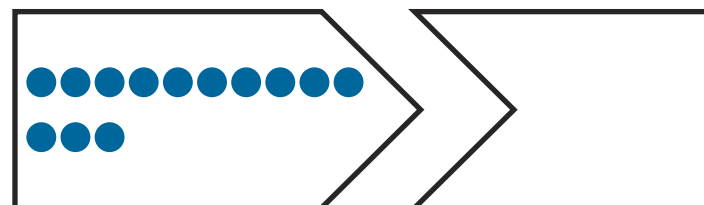
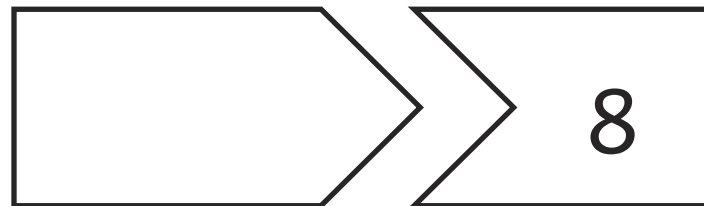
Can you make your own dotty puzzle pieces?

Choose a number we haven't used yet.

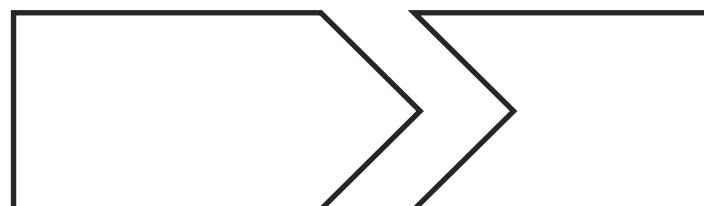
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Complete the missing parts of these dotty puzzles.



Now, make one of your own.



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Children represent numbers using pictures. They count the number of objects in a picture and check that it matches the number. If not, they explain why not.

What number can you see written here?

How many objects are in the picture?

How do you know?

Can you see how the pictures are all lined up neatly?

How does that make it easier to count?

Does the picture match the number?

Why? Why not?

When the pictures do not match, the children could create a picture to match the number. Or they could write the number that matches the picture.

Can you draw a picture that does match this number?

Can you explain what you have drawn?

What number could you write to go with this picture?

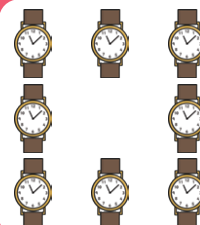
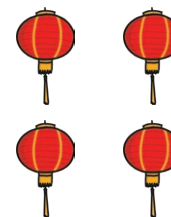
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These numbers and pictures have been matched up. Are they correct?

4

and

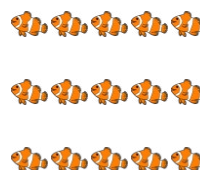


and

9

19

and



and

15

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Children represent numbers using pictures. They count the number of objects in each picture to work out which number is being represented. All these pictures represent the number 12. Discuss with children the different ways of representing 12: ten and two, two rows of six and three rows of four. When creating their own pictures they may find it useful to first use practical equipment, for example counters or base ten blocks.

Which number is represented by these pictures?

How do you know?

Can they represent the same number even though they look different? How?

How have the objects been arranged differently in the pictures?

Can you write this number in numerals?

Can you choose a number between ten and 20?

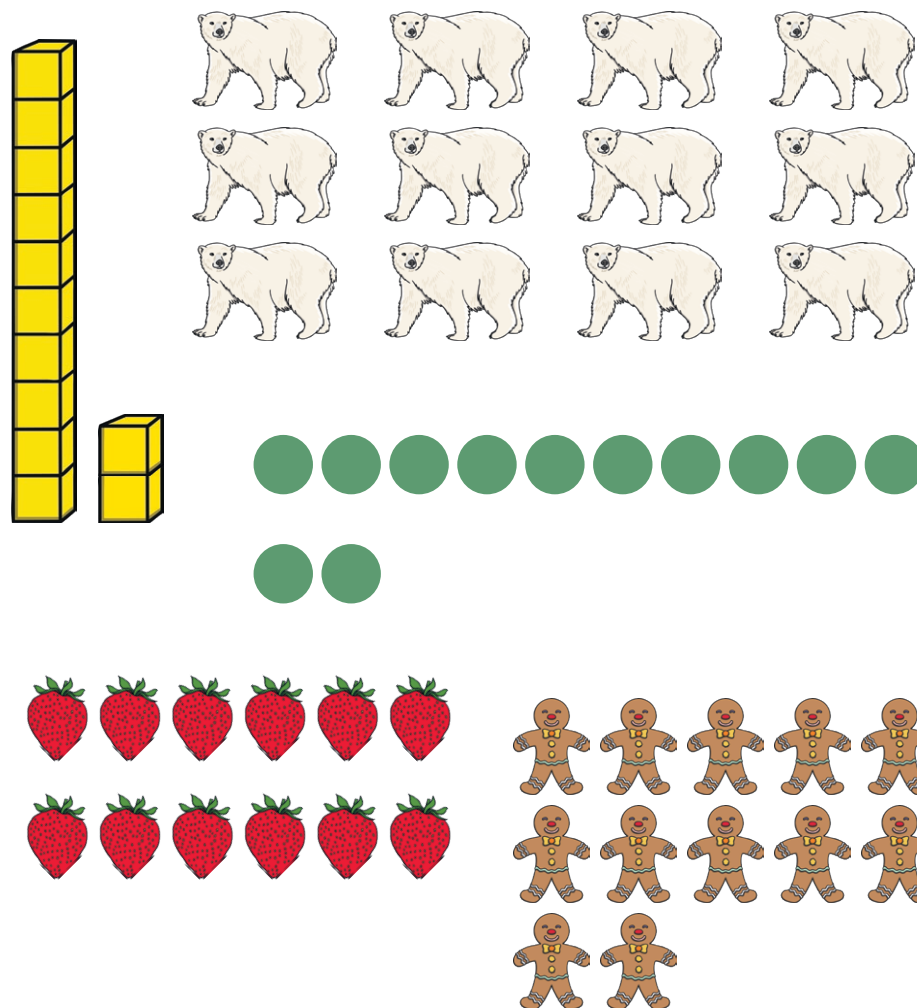
Can you write the number?

Can you draw the number in different ways?

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These pictures represent the same number.  
Which number is it?



Choose a number from 10 to 20 and represent it in as many different ways as you can.