1. Continue the pattern.

2. Write the correct numbers and signs in the boxes and join the pictures to the number line.

3. (a) Colour in six circles.

   (b) Tick the second circle from the right. What is its position from the left?

4. Show the answers by drawing sticks.

   \[1 + \underline{\hspace{1cm}} = \underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{1cm}} + \underline{\hspace{1cm}} =\]
### 1
Write an addition about each domino.

<table>
<thead>
<tr>
<th>Domino 1</th>
<th>Domino 2</th>
<th>Domino 3</th>
<th>Domino 4</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Domino 1" /></td>
<td><img src="image2.png" alt="Domino 2" /></td>
<td><img src="image3.png" alt="Domino 3" /></td>
<td><img src="image4.png" alt="Domino 4" /></td>
</tr>
</tbody>
</table>

\[ 6 + 0 = \] [ ] [ ] [ ] [ ]

\[ 11 + 11 = \] [ ] [ ] [ ] [ ]

\[ 22 + 22 = \] [ ] [ ] [ ] [ ]

\[ 33 + 33 = \] [ ] [ ] [ ] [ ]

### 2
Solve:

\[ 0 + 0 = \] [ ] [ ] [ ] [ ]

\[ 1 + 1 = \] [ ] [ ] [ ] [ ]

\[ 2 + 2 = \] [ ] [ ] [ ] [ ]

\[ 0 + 1 = \] [ ] [ ] [ ] [ ]

\[ 1 + 2 = \] [ ] [ ] [ ] [ ]

\[ 2 + 3 = \] [ ] [ ] [ ] [ ]

\[ 0 + 2 = \] [ ] [ ] [ ] [ ]

\[ 1 + 3 = \] [ ] [ ] [ ] [ ]

\[ 2 + 4 = \] [ ] [ ] [ ] [ ]

\[ 0 + 3 = \] [ ] [ ] [ ] [ ]

\[ 1 + 4 = \] [ ] [ ] [ ] [ ]

\[ 2 + 5 = \] [ ] [ ] [ ] [ ]

\[ 0 + 4 = \] [ ] [ ] [ ] [ ]

\[ 1 + 5 = \] [ ] [ ] [ ] [ ]

\[ 2 + 6 = \] [ ] [ ] [ ] [ ]

\[ 0 + 5 = \] [ ] [ ] [ ] [ ]

\[ 1 + 6 = \] [ ] [ ] [ ] [ ]

\[ 2 + 7 = \] [ ] [ ] [ ] [ ]

\[ 3 + 8 = \] [ ] [ ] [ ] [ ]

\[ 4 + 9 = \] [ ] [ ] [ ] [ ]

\[ 5 + 10 = \] [ ] [ ] [ ] [ ]

\[ 6 + 11 = \] [ ] [ ] [ ] [ ]

\[ 7 + 12 = \] [ ] [ ] [ ] [ ]

\[ 8 + 13 = \] [ ] [ ] [ ] [ ]

\[ 9 + 14 = \] [ ] [ ] [ ] [ ]

\[ 10 + 15 = \] [ ] [ ] [ ] [ ]

\[ 11 + 16 = \] [ ] [ ] [ ] [ ]

\[ 12 + 17 = \] [ ] [ ] [ ] [ ]

\[ 13 + 18 = \] [ ] [ ] [ ] [ ]

\[ 14 + 19 = \] [ ] [ ] [ ] [ ]

\[ 15 + 20 = \] [ ] [ ] [ ] [ ]

### 3
Fill in the missing numbers.

<table>
<thead>
<tr>
<th>6</th>
<th>1</th>
<th>6</th>
<th>5</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>0</td>
<td>4</td>
<td></td>
<td>6</td>
<td>2</td>
<td>3</td>
<td>1</td>
</tr>
</tbody>
</table>

### 4
Write the correct numbers in the corners so that the signs are correct.

![Signs](image5.png)
1. Write a subtraction about each picture and join it to the number line.

\[ 6 - \square = \square \]

\[ 4 - \square = \square \]

\[ 5 - 2 = \square \]

\[ 6 - 2 = \square \]

\[ 2 - 2 = \square \]

\[ 4 - 2 = \square \]

\[ 5 - 3 = \square \]

\[ 6 - 3 = \square \]

\[ 3 - 1 = \square \]

\[ 4 - 3 = \square \]

\[ 5 - 4 = \square \]

\[ 6 - 4 = \square \]

\[ 3 - 2 = \square \]

\[ 4 - 4 = \square \]

\[ 5 - 5 = \square \]

\[ 6 - 5 = \square \]

\[ 3 - 3 = \square \]

\[ 5 - 1 = \square \]

\[ 6 - 1 = \square \]

\[ 6 - 6 = \square \]

2. Compare the two sides of each picture and write it down in different ways.

\[ 4 \triangleleft 6 \]

\[ 4 + 2 = \square \]

\[ 6 - \square = \square \]

3. Solve:

\[ 2 - 1 = \square \]

\[ 4 - 1 = \square \]

\[ 5 - 2 = \square \]

\[ 6 - 2 = \square \]

\[ 2 - 2 = \square \]

\[ 4 - 2 = \square \]

\[ 5 - 3 = \square \]

\[ 6 - 3 = \square \]

\[ 3 - 1 = \square \]

\[ 4 - 3 = \square \]

\[ 5 - 4 = \square \]

\[ 6 - 4 = \square \]

\[ 3 - 2 = \square \]

\[ 4 - 4 = \square \]

\[ 5 - 5 = \square \]

\[ 6 - 5 = \square \]

\[ 3 - 3 = \square \]

\[ 5 - 1 = \square \]

\[ 6 - 1 = \square \]

\[ 6 - 6 = \square \]

4. Write the numbers 0 to 6 in the large boxes in increasing order. Write the correct signs in the small boxes.
1. Write additions and subtractions about the pictures.

2. Find the value of \(\bullet\) and \(\triangle\), if
   \[\bullet = \triangle + \triangle, \quad \triangle = \square + \square\]
   and \(\square = 1\)

   Display the answers with numbers and sticks.

3. How many coins could be contained in the purse?

   Join up to the number line.

4. Make it true by moving one stick.
   \[
   \| + | = \|\|\|\|\| \quad \|\|\|\|\| - \| = |
   \]
1. Complete the pattern.

2. Complete the pictures to make 7.

3. Write the numbers from 0 to 7 in the boxes.
   (a) 
   (b) Write the next number smaller and the next number greater than 5, 2 and 6.

4. Show your answers by drawing sticks.
   \[ 1 + \boxed{} = \boxed{} + \boxed{} = \boxed{} + \boxed{} = \]
Bunny starts from 0 and jumps to every second number. Colour these points green and the missed points red.

Write down the additions.

Solve:

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>+</td>
<td>0</td>
<td>=</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>+</td>
<td>2</td>
<td>=</td>
</tr>
<tr>
<td>1</td>
<td>+</td>
<td>4</td>
<td>=</td>
</tr>
<tr>
<td>1</td>
<td>+</td>
<td>5</td>
<td>=</td>
</tr>
</tbody>
</table>

Fill in the missing numbers.
1. Each plate had 7 apples to start with. How many have been eaten? Write a subtraction about each picture.

2. Write additions and subtractions about the pictures.

3. Sue has 2 dolls and Jane has 3 more dolls than Sue. Draw the dolls Jane and Sue have.

   Sue:  \[ \quad \]
   Jane:  \[ \quad \]

   (a) How many dolls does Jane have?  \[ \quad \]
   (b) Write an addition for the total.  \[ + = \]
   (c) Compare the dolls with a subtraction.  \[ - = \]

4. Write the numbers 0 to 7 in the large boxes in **decreasing** order. Write the correct signs in the small boxes.
1 Fill in the missing numbers.

\[
\begin{align*}
7 &= 3 + \_
\end{align*}
\]

\[
\begin{align*}
1 + 1 + \_ &= 7
\end{align*}
\]

\[
\begin{align*}
2 + 1 &< 4
\end{align*}
\]

\[
\begin{align*}
7 &= \_ + 2
\end{align*}
\]

\[
\begin{align*}
1 + 3 + 3 &= \_
\end{align*}
\]

\[
\begin{align*}
5 - 3 &< \_
\end{align*}
\]

\[
\begin{align*}
3 &= \_ - 4
\end{align*}
\]

\[
\begin{align*}
7 - 2 - 2 &= \_
\end{align*}
\]

\[
\begin{align*}
3 + 4 &> 3 + \_
\end{align*}
\]

\[
\begin{align*}
2 &= 7 - \_
\end{align*}
\]

\[
\begin{align*}
7 - 6 + \_ &= 3
\end{align*}
\]

\[
\begin{align*}
\_ - 1 &> 4
\end{align*}
\]

\[
\begin{align*}
6 + \_ &= 7
\end{align*}
\]

\[
\begin{align*}
\_ - 2 - 5 &= 0
\end{align*}
\]

\[
\begin{align*}
7 - \_ &= 1
\end{align*}
\]

\[
\begin{align*}
7 - 4 + \_ &= 7
\end{align*}
\]

2 Which numbers could be covered by the hand?

\[
\begin{align*}
2 + \_
\end{align*}
\]

\[
\begin{align*}
7 - 1
\end{align*}
\]

\[
\begin{align*}
2 + \_
\end{align*}
\]

\[
\begin{align*}
7 - 1
\end{align*}
\]

\[
\begin{align*}
2 + \_
\end{align*}
\]

Write statements about each balance.

\[
\begin{align*}
2 + \_ = \_
\end{align*}
\]

\[
\begin{align*}
2 + \_ < 7 - 1
\end{align*}
\]

\[
\begin{align*}
+ \_ > -
\end{align*}
\]

\[
\begin{align*}
2 + \_ = \_
\end{align*}
\]

\[
\begin{align*}
2 + \_ < \_
\end{align*}
\]

\[
\begin{align*}
\_ < \_
\end{align*}
\]

\[
\begin{align*}
\_ > \_
\end{align*}
\]

3 How many routes could Little Red Riding Hood choose to get to her Grandma through the forest? Draw routes along the paths given.
1. Continue the pattern.

![Pattern](image1)

2. Complete the pictures to make 8.

![Completed Pictures](image2)

3. Write the numbers 0 to 8 in the boxes.

(a) 

```
  [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]
```

(b) Colour red the point 0.
Starting from 0, colour every 2nd point red also.
Colour the other points green.

4. (a) Colour in **eight** circles.

![Eight Circles](image3)

(b) Tick the fourth circle from the right.
What is its position from the left?

![Position](image4)
Bunny is jumping along the number line. Write additions for the jumps.

(a) 2 + 6 = 8

(b) □ + □ = 8

(c) □ + □ = □

Write down the additions.

8 + 0 = □ □ + □ = □ □ + □ = □ □ + □ = □ □ + □ = □ □ + □ = □ □ + □ = □ □ + □ = □

Solve:

1 + 2 = □ 1 + 7 = □ 2 + 6 = □ 4 + 4 = □
1 + 3 = □ 2 + 2 = □ 3 + 3 = □ 4 + 0 = □
1 + 4 = □ 2 + 3 = □ 3 + 4 = □ 7 + 1 = □
1 + 5 = □ 2 + 4 = □ 3 + 5 = □ 0 + 8 = □
1 + 6 = □ 2 + 5 = □
1. Each plate had 8 plums on it. How many have been eaten? Write a subtraction for each.

   ![Plums](image)

   \[8 - 3 = \quad - = \quad = \quad = \]

2. Write additions and subtractions for the pictures.

   ![Items](image)

   \[
   \begin{array}{c}
   + = \\
   - = \\
   \end{array}
   \]

3. Solve:

   \[
   \begin{array}{c}
   2 - 1 = \\
   2 - 2 = \\
   3 - 1 = \\
   3 - 2 = \\
   3 - 3 = \\
   4 - 1 = \\
   4 - 2 = \\
   4 - 3 = \\
   5 - 1 = \\
   5 - 2 = \\
   5 - 3 = \\
   5 - 4 = \\
   7 - 0 = \\
   7 - 2 = \\
   7 - 4 = \\
   7 - 6 = \\
   8 - 1 = \\
   8 - 2 = \\
   8 - 3 = \\
   8 - 4 = \\
   8 - 5 = \\
   8 - 7 = \\
   8 - 8 = \\
   \end{array}
   \]

4. Write the numbers 0 to 8 in the large boxes in decreasing order. Write the correct signs in the small boxes.
1. Write additions and subtractions for the pictures.

2. Fill in the missing numbers.

3. Which numbers could be hidden under the cards? (0 to 8)

Show the results on the number lines.
1

(a) Continue the pattern.

\[
\begin{align*}
3 &= 2 + \square \\
4 &= 2 + 2 \\
5 &= 2 + 2 + \square \\
6 &= 2 + \square + \square \\
7 &= 2 + \square + \square + \square \\
8 &= 2 + \square + \square + \square \\
\end{align*}
\]

(b) Take away 2 as many times as possible.

\[
\begin{align*}
3 - 2 &= 1 \\
4 - 2 - 2 &= 0 \\
5 - 2 - &= 0 \\
6 - 2 - &= 0 \\
7 - 2 - &= 0 \\
8 - 2 - &= 0 \\
\end{align*}
\]

2

Each shape represents a number.

The sum of the four numbers along each line must equal 8. Do not use 0.

\[
\begin{align*}
\square &= \square \\
\square &= \square \\
\triangle &= \square \\
\bigtriangleup &= \square \\
\bigcirc &= \square \\
\end{align*}
\]

3

There are 8 tulips in a vase, some red and some yellow. How many red and how many yellow tulips could there be?

<table>
<thead>
<tr>
<th>Red</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Yellow</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
1. How many lines make up each shape?

2. Solve:

   \[
   \begin{align*}
   6 + 1 &= \underline{} & 7 - 2 &= \underline{} & 1 + 1 + 1 &= \underline{} \\
   2 + 2 &= \underline{} & 3 - 3 &= \underline{} & 2 + 2 + 2 &= \underline{} \\
   5 + 3 &= \underline{} & 8 - 1 &= \underline{} & 5 + 1 + 2 &= \underline{} \\
   1 + 0 &= \underline{} & 6 - 0 &= \underline{} & 4 + 1 + 1 &= \underline{} \\
   4 + 2 &= \underline{} & 8 - 7 &= \underline{} & 3 + 3 + 2 &= \underline{} \\
   8 - 4 - 4 &= \underline{} & 3 - 2 + 5 &= \underline{} & 3 + 2 - 5 &= \underline{} \\
   8 - 6 - 1 &= \underline{} & 8 - 8 + 7 &= \underline{}
   \end{align*}
   \]

3. The total number of dots on opposite sides of a dice is 7. How many dots are on the bottom of each dice?
1. (a) Write inside each shape how many **sides** it has. Put signs between them.

   ![SHAPE](image)

   (b) Write down the number of **vertices** below each shape.

2. Fill in the missing numbers. Show the rule.

   ![SHAPE](image)

3. 8 girls are going to a fancy dress party. 5 girls already know what to wear. How many still have to decide?
   Write it as a subtraction.

4. From Snow White's seven dwarfs, Grumpy, Dozey and Sneezy have already left for the mine. How many dwarfs remain at home?

5. Which can go faster? Put them in order starting with the **slowest**.

   ![TRANSPORT](image)
1. Number these rectangles in **decreasing** height order.

Tick the fifth from the right.

2. Write the number of dots and put in the correct signs. ( <, >, = )

3. Which numbers make the statements true? (0 to 8)
   Show your answers on the number line.
   
   - \[ \bigcirc = 4 + 3 \]
   
   - \[ \square > 2 \]
   
   - \[ \triangle < 7 \]
   
   - \[ 3 < \square < 8 \]
1. Continue the pattern.

2. Complete the pictures to make 9.

3. Write the numbers 0 to 9 in the boxes.
   (a) 
   (b) Jump from 0 in steps of 2. Put these numbers in increasing order.
   (c) Jump back from 9 in steps of 2. Put these numbers in decreasing order.

4. Show the answers by drawing sticks.
1. Bunny is jumping along the number line. Write additions for the jumps.

(a) \[6 + 3 = 9\]

(b) \[\square + \square = \square\]

(c) \[\square + \square = \square\]

2. Write down the additions.

\[9 + 0 = \square \quad \square + \square = \square \quad \square + \square = \square \quad \square + \square = \square \quad \square + \square = \square\]

3. Solve:

\[
\begin{align*}
1 + 2 &= \square \\
2 + 3 &= \square \\
3 + 4 &= \square \\
3 + 5 &= \square \\
4 + 5 &= \square \\
3 + 6 &= \square \\
6 + 3 &= \square \\
6 + 0 &= \square \\
7 + 2 &= \square
\end{align*}
\]
1. Each plate had 9 pears on it. How many pears have been eaten? Write a subtraction about each picture.

2. Write additions and subtractions about the pictures.

3. Solve:

   \[
   \begin{align*}
   2 - 1 &= \_\_ \\
   3 - 1 &= \_\_ \\
   3 - 2 &= \_\_ \\
   4 - 0 &= \_\_ \\
   4 - 2 &= \_\_ \\
   4 - 4 &= \_\_ \\
   5 - 1 &= \_\_ \\
   5 - 3 &= \_\_ \\
   5 - 5 &= \_\_ \\
   6 - 1 &= \_\_ \\
   6 - 2 &= \_\_ \\
   6 - 5 &= \_\_ \\
   7 - 1 &= \_\_ \\
   7 - 3 &= \_\_ \\
   7 - 4 &= \_\_ \\
   7 - 6 &= \_\_ \\
   8 - 1 &= \_\_ \\
   9 - 2 &= \_\_ \\
   9 - 4 &= \_\_ \\
   9 - 5 &= \_\_ \\
   9 - 6 &= \_\_ \\
   9 - 7 &= \_\_ \\
   9 - 8 &= \_\_ \\
   9 - 9 &= \_\_ 
   \end{align*}
\]

4. Fill in the missing numbers.

   \[
   \begin{array}{cccccccc}
   2 & 0 & 3 & 5 & 7 & 9 & 4 & 1 \\
   9 & 7 & 9 & 4 & 6 & 7 & 1 & 7 & 5 \\
   \end{array}
   \]
1. Write an addition and a subtraction about each picture.

2. Fill in the missing numbers.

3. Draw different numbers of eggs on the plates so that there are 9 eggs in total along each line.
1. Write the numbers from 0 to 10 in the boxes below.

Draw a red dot on 0, a green dot on 1, a red dot on 2, a green dot on 3 and so on.

2. Continue the pattern.

3. Write additions and subtractions for:

   (a) \[ \begin{array}{ll}
   \triangle & \triangle & \triangle & \triangle & \triangle & \circ & \circ & \circ & \circ \\
   6 + 4 = & & & & & & & & \\
   10 - & = & & & & & & & \\
   \end{array} \]

   (b) \[ \begin{array}{ll}
   \triangle & \triangle & \triangle & \triangle & \triangle & \triangle & \triangle & \circ \\
   \square & + & \square & = & \square & & & \\
   10 - & = & & & & & & \\
   \end{array} \]

4. Write additions for:

   (a) \[ \begin{array}{ll}
   & \square & \square & \triangle & \triangle & \triangle & \circ & \circ & \circ \\
   \end{array} \]

   (b) \[ \begin{array}{ll}
   \square & \triangle & \circ & \circ & \circ & \square & \square & \square & \square \\
   \end{array} \]
There were 10 mushrooms on each plate.

How many mushrooms have been taken away?
Write equations about each plate.

\[
\begin{align*}
6 + & = 10 \\
10 - & = 6 \\
\end{align*}
\]

There were 10 beads on every piece of string but some have fallen off.
Write subtractions for each string.

\[
\begin{align*}
10 - 3 & = \\
10 - 8 & = \\
10 - & = \\
\end{align*}
\]

Fill in the missing numbers. Show where we end up if we move:

(a) 5 to the right of 4
(b) 6 to the left of 10
(c) 7 to the left of 7
(d) 2 to the right of 8.

Fill in the missing numbers.

\[
\begin{align*}
2 + 3 & \quad + 1 \quad + 4 \quad - & = 7
\end{align*}
\]
1. Solve:

\[
10 - 0 = \quad 10 - 5 = \quad 10 - 9 = \\
10 - 1 = \quad 10 - 6 = \quad 10 - 10 = \\
10 - 2 = \quad 10 - 7 = \\
10 - 3 = \quad 10 - 8 = 
\]

2. Write in the boxes the number of cherries.

3. Complete the sums.

\[
10 + 0 = \quad 2 + \quad = \quad + 5 = \\
8 + 2 = \quad 0 + 10 = \quad + \quad = \\
+ 4 = 10 \quad 1 + 9 = \quad 9 + \quad = 10 \\
+ \quad = \quad 3 + \quad = 10
\]
1. Write the numbers below the line.

\[ \begin{array}{cccccccccccc}
0 & 1 & & & & & & & & & & \\
\end{array} \]

Jump from 0 in steps of 2. Put those numbers in increasing order.

\[ \begin{array}{cccccccccccc}
\square & < & \square & < & \square & < & \square & < & \square & < & \square \\
\end{array} \]

2. Find the point 9. Step 2 to the left 4 times. Mark these numbers with blue dots.

Complete:

\[ \begin{array}{cccccccccccc}
9 & \rightarrow & \square & \rightarrow & \square & \rightarrow & \square & \rightarrow & \square & \rightarrow & \square \\
9 & \gg & 7 & \gg & & \gg & & \gg & & \gg \\
\end{array} \]

3. Which numbers could I be thinking of? Mark them on the number line.

(a) Odd numbers greater than 6.

\[ \begin{array}{cccccccccccc}
0 & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 & 11 \\
\end{array} \]

(b) Even numbers smaller than 5.

\[ \begin{array}{cccccccccccc}
0 & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 & 11 \\
\end{array} \]

(c) The next nearest odd number to 7.

\[ \begin{array}{cccccccccccc}
0 & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 & 11 \\
\end{array} \]

4. Fill in the missing numbers.

\[ \begin{array}{cccccccccccc}
2 + \square + 2 & = & 10 & & & & & & & & & \\
4 + \square & & - 3 & = & 4 & & & & & & & \\
4 + \square & & + 5 & = & 9 & & & & & & & \\
3 - \square & & + 7 & = & 10 & & & & & & & \\
\square & & + 3 & & - 2 & = & 5 & & & & & \\
9 - \square & & + \square & = & 9 & & & & & & & \\
\end{array} \]