Number Bonds to 20

Look at the number on each butterfly’s wing. On the other wing, write the number that goes with it to make 20. If you need help, try using 20 beads, buttons or pieces of pasta and divide them into two sets.

Challenge: Write out the pairs of numbers as addition number sentences, e.g. $19 + 1 = 20$. 
Number Bonds to 20

Answers

Look at the number on each butterfly’s wing. On the other wing, write the number that goes with it to make 20. If you need help, try using 20 beads, buttons or pieces of pasta and divide them into two sets.
Number Bonds to 20

These are the number bonds to 20.

Fill in the missing numbers:

\[10 + 10 = \_\] \[11 + \_ = 20\]

\[12 + \_ = 20\] \[13 + 7 = \_\]

\[\_ + 6 = 20\] \[\_ + 5 = 20\]

\[16 + \_ = 20\] \[17 + \_ = 20\]

\[18 + \_ = 20\] \[\_ + 1 = 20\]

Now try these:

Use the number sentences above to help you.

\[3 + \_ = 20\] \[6 + \_ = 20\]

\[\_ + 17 = 20\] \[20 - 6 = \_\]

\[20 - 2 = \_\] \[20 - \_ = 13\]

\[20 - \_ = 10\] \[\_ - 3 = 17\]

Challenge: Create some missing number sentences like these and see if your helper can complete them! If they get stuck, you can be the teacher and explain how to work out the answer!
Number Bonds to 20

Answers

These are the number bonds to 20.

Fill in the missing numbers:

\[
\begin{align*}
10 + 10 &= 20 & 11 + 9 &= 20 \\
12 + 8 &= 20 & 13 + 7 &= 20 \\
14 + 6 &= 20 & 15 + 5 &= 20 \\
16 + 4 &= 20 & 17 + 3 &= 20 \\
18 + 2 &= 20 & 19 + 1 &= 20 \\
\end{align*}
\]

Now try these:

Use the number sentences above to help you.

\[
\begin{align*}
3 + 17 &= 20 & 6 + 14 &= 20 \\
3 + 17 &= 20 & 20 - 6 &= 14 \\
20 - 2 &= 18 & 20 - 7 &= 13 \\
20 - 10 &= 10 & 20 - 3 &= 17 \\
\end{align*}
\]

Challenge: Create some missing number sentences like these and see if your helper can complete them! If they get stuck, you can be the teacher and explain how to work out the answer!
Number Bonds to 20

Fill in the missing numbers:

\[ \text{_____} + 19 = 20 \quad 20 - 3 = \text{____} \]

\[ 20 - 10 = \text{____} \quad 20 - \text{____} = 17 \]

\[ 20 - \text{____} = 4 \quad 20 - \text{____} = 2 \]

Now you know the number bonds to 20, you can use this to help you solve other problems.

\[ 28 + 2 = \text{____} \quad 55 + 5 = \text{____} \]

\[ 34 + \text{____} = 40 \quad 62 + \text{____} = 70 \]

\[ 219 + 1 = \text{____} \quad 312 + \text{____} = 320 \]

\[ 116 + 4 = \text{____} \quad 167 + \text{____} = 170 \]

\[ 160 + \text{____} = 200 \quad 200 - 50 = \text{____} \]
Challenge: Can you add some number sentences to this table?

<table>
<thead>
<tr>
<th>If I know:</th>
<th>If I know:</th>
</tr>
</thead>
<tbody>
<tr>
<td>18 + 2 = 20</td>
<td>15 + 5 = 20</td>
</tr>
<tr>
<td>then I also know...</td>
<td>then I also know...</td>
</tr>
<tr>
<td>2 + 18 = 20</td>
<td></td>
</tr>
<tr>
<td>20 - 2 = 18</td>
<td></td>
</tr>
<tr>
<td>20 - 18 = 2</td>
<td></td>
</tr>
<tr>
<td>180 + 20 = 200</td>
<td></td>
</tr>
<tr>
<td>20 + 180 = 200</td>
<td></td>
</tr>
<tr>
<td>200 - 20 = 180</td>
<td></td>
</tr>
<tr>
<td>200 - 180 = 20</td>
<td></td>
</tr>
</tbody>
</table>
Number Bonds to 20

Answers

Fill in the missing numbers:

\[
\begin{align*}
1 + 19 &= 20 & 20 - 3 &= 17 \\
20 - 10 &= 10 & 20 - 3 &= 17 \\
20 - 16 &= 4 & 20 - 18 &= 2
\end{align*}
\]

Now you know the number bonds to 20, you can use this to help you solve other problems.

\[
\begin{align*}
28 + 2 &= 30 & 55 + 5 &= 60 \\
34 + 6 &= 40 & 62 + 8 &= 70 \\
219 + 1 &= 220 & 312 + 8 &= 320 \\
116 + 4 &= 120 & 167 + 3 &= 170 \\
160 + 40 &= 200 & 200 - 50 &= 150
\end{align*}
\]
Challenge: Can you add some number sentences to this table?

<table>
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<tr>
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</tr>
</thead>
<tbody>
<tr>
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<td>15 + 5 = 20</td>
</tr>
<tr>
<td>then I also know...</td>
<td>then I also know...</td>
</tr>
<tr>
<td>2 + 18 = 20</td>
<td>Any correct combination of</td>
</tr>
<tr>
<td></td>
<td>calculations using these</td>
</tr>
<tr>
<td></td>
<td>numbers.</td>
</tr>
<tr>
<td>20 - 2 = 18</td>
<td></td>
</tr>
<tr>
<td>20 - 18 = 2</td>
<td></td>
</tr>
<tr>
<td>180 + 20 = 200</td>
<td></td>
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<tr>
<td>20 + 180 = 200</td>
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