

Teacher notes

Laminate the subtraction ten-frame sheet for repeated use with a dry-erase pen.

Children will use manipulatives such as counters to represent the subtraction calculation. Alternatively, this activity can be completed in books.

DEVELOPING



Children will be given both partitions in the subtraction calculation.

SECURE



Children will be given the first partition in the subtraction calculation.

MASTERY



Children will be given no partitions and be required to complete the subtraction calculation themselves.

Step 1: Children will represent the subtraction calculation using counters on the ten frame. They will place the starting number of counters on the ten frame, using a different colour for the second ten frame.

Subtraction ten frames
Select a subtraction calculation. Represent it using counters. Remove the counters to help you find the answer.

Calculation:

$$\begin{array}{|c|c|c|} \hline 12 & - & 6 \\ \hline \end{array} = \square$$

2 4

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Step 2: Children will then remove the counters to leave 10. Then they will remove the remaining counters from the second partition in the calculation.

Subtraction ten frames
Select a subtraction calculation. Represent it using counters. Remove the counters to help you find the answer.

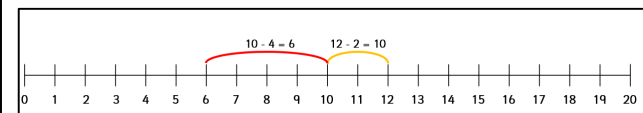
Calculation:

$$\begin{array}{|c|c|c|} \hline 12 & - & 6 \\ \hline \end{array} = 6$$

2 4

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Step 3: The counters left will help them complete the subtraction calculation. Children will check their answer using a number line showing each partition subtracted from the starting number, then from 10.

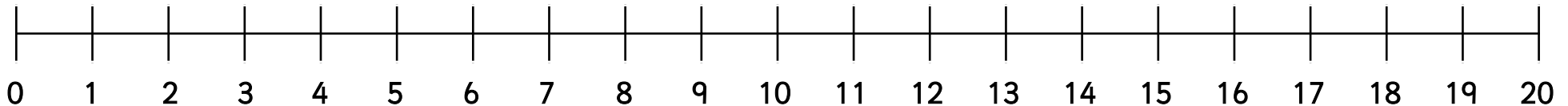


Subtraction ten frames

Select a subtraction calculation. Represent it using counters. Then show it on the number line.

Calculation:





Subtraction calculations



Select a subtraction problem and show it on the ten frames to help you complete the calculation.

$$\boxed{12} - \boxed{3} = \boxed{}$$

2

1

$$\boxed{13} - \boxed{8} = \boxed{}$$

3

5

$$\boxed{13} - \boxed{9} = \boxed{}$$

3

6

$$\boxed{16} - \boxed{8} = \boxed{}$$

6

2

$$\boxed{16} - \boxed{9} = \boxed{}$$

6

3

$$\boxed{11} - \boxed{6} = \boxed{}$$

1

5

$$\boxed{15} - \boxed{7} = \boxed{}$$

5

2

$$\boxed{14} - \boxed{7} = \boxed{}$$

4

3

$$\boxed{14} - \boxed{8} = \boxed{}$$

4

4

$$\boxed{11} - \boxed{7} = \boxed{}$$

1

6

$$\boxed{12} - \boxed{6} = \boxed{}$$

2

4

$$\boxed{19} - \boxed{10} = \boxed{}$$

9

1

Subtraction calculations



Select a subtraction problem and show it on the ten frames to help you complete the calculation.

$$\boxed{12} - \boxed{3} = \boxed{}$$

2	

$$\boxed{13} - \boxed{8} = \boxed{}$$

3	

$$\boxed{13} - \boxed{9} = \boxed{}$$

3	

$$\boxed{16} - \boxed{8} = \boxed{}$$

6	

$$\boxed{16} - \boxed{9} = \boxed{}$$

6	

$$\boxed{11} - \boxed{6} = \boxed{}$$

1	

$$\boxed{15} - \boxed{7} = \boxed{}$$

5	

$$\boxed{14} - \boxed{7} = \boxed{}$$

4	

$$\boxed{14} - \boxed{8} = \boxed{}$$

4	

$$\boxed{11} - \boxed{7} = \boxed{}$$

1	

$$\boxed{12} - \boxed{6} = \boxed{}$$

2	

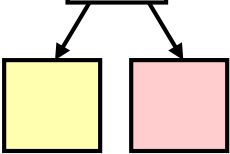
$$\boxed{19} - \boxed{10} = \boxed{}$$

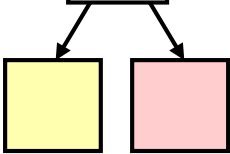
9	

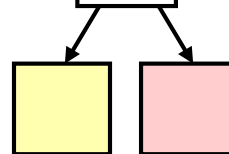
Subtraction calculations

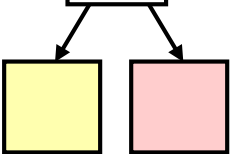


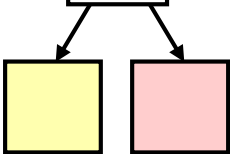
Select a subtraction problem and show it on the ten frames to help you complete the calculation.

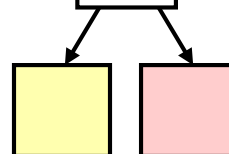
$$\boxed{12} - \boxed{3} = \boxed{}$$


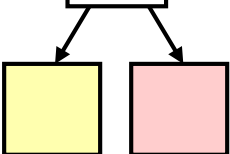
$$\boxed{13} - \boxed{8} = \boxed{}$$


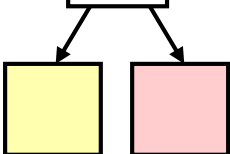
$$\boxed{13} - \boxed{9} = \boxed{}$$


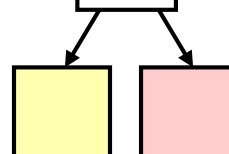
$$\boxed{16} - \boxed{8} = \boxed{}$$


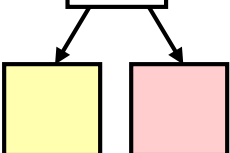
$$\boxed{16} - \boxed{9} = \boxed{}$$


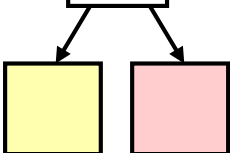
$$\boxed{11} - \boxed{6} = \boxed{}$$


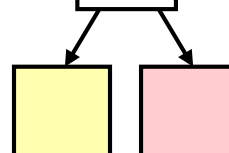
$$\boxed{15} - \boxed{7} = \boxed{}$$


$$\boxed{14} - \boxed{7} = \boxed{}$$


$$\boxed{14} - \boxed{8} = \boxed{}$$


$$\boxed{11} - \boxed{7} = \boxed{}$$


$$\boxed{12} - \boxed{6} = \boxed{}$$


$$\boxed{19} - \boxed{10} = \boxed{}$$


Answers - Subtraction calculations



Select a subtraction problem and show it on the ten frames to help you complete the calculation.

$$\boxed{12} - \boxed{3} = \boxed{9}$$

```
graph TD; 3[3] --> 2[2]; 3 --> 1[1]; 12[12] --> 2; 12 --> 1;
```

$$\boxed{13} - \boxed{8} = \boxed{5}$$

```
graph TD; 8[8] --> 3[3]; 8 --> 5[5]; 13[13] --> 3; 13 --> 0[0];
```

$$\boxed{13} - \boxed{9} = \boxed{4}$$

```
graph TD; 9[9] --> 3[3]; 9 --> 6[6]; 13[13] --> 3; 13 --> 0[0];
```

$$\boxed{16} - \boxed{8} = \boxed{8}$$

```
graph TD; 8[8] --> 6[6]; 8 --> 2[2]; 16[16] --> 6; 16 --> 0[0];
```

$$\boxed{16} - \boxed{9} = \boxed{7}$$

```
graph TD; 9[9] --> 6[6]; 9 --> 3[3]; 16[16] --> 6; 16 --> 0[0];
```

$$\boxed{11} - \boxed{6} = \boxed{5}$$

```
graph TD; 6[6] --> 1[1]; 6 --> 5[5]; 11[11] --> 1; 11 --> 0[0];
```

$$\boxed{15} - \boxed{7} = \boxed{8}$$

```
graph TD; 7[7] --> 5[5]; 7 --> 2[2]; 15[15] --> 5; 15 --> 0[0];
```

$$\boxed{14} - \boxed{7} = \boxed{7}$$

```
graph TD; 7[7] --> 4[4]; 7 --> 3[3]; 14[14] --> 4; 14 --> 0[0];
```

$$\boxed{14} - \boxed{8} = \boxed{6}$$

```
graph TD; 8[8] --> 4[4]; 8 --> 4[4]; 14[14] --> 4; 14 --> 0[0];
```

$$\boxed{11} - \boxed{7} = \boxed{4}$$

```
graph TD; 7[7] --> 1[1]; 7 --> 6[6]; 11[11] --> 1; 11 --> 0[0];
```

$$\boxed{12} - \boxed{6} = \boxed{6}$$

```
graph TD; 6[6] --> 2[2]; 6 --> 4[4]; 12[12] --> 2; 12 --> 0[0];
```

$$\boxed{19} - \boxed{10} = \boxed{9}$$

```
graph TD; 10[10] --> 9[9]; 10 --> 1[1]; 19[19] --> 9; 19 --> 0[0];
```

Answers - Subtraction calculations



Select a subtraction problem and show it on the ten frames to help you complete the calculation.

$$\boxed{12} - \boxed{3} = \boxed{9}$$

2 1

$$\boxed{13} - \boxed{8} = \boxed{5}$$

3 5

$$\boxed{13} - \boxed{9} = \boxed{4}$$

3 6

$$\boxed{16} - \boxed{8} = \boxed{8}$$

6 2

$$\boxed{16} - \boxed{9} = \boxed{7}$$

6 3

$$\boxed{11} - \boxed{6} = \boxed{5}$$

1 5

$$\boxed{15} - \boxed{7} = \boxed{8}$$

5 2

$$\boxed{14} - \boxed{7} = \boxed{7}$$

4 3

$$\boxed{14} - \boxed{8} = \boxed{6}$$

4 4

$$\boxed{11} - \boxed{7} = \boxed{4}$$

1 6

$$\boxed{12} - \boxed{6} = \boxed{6}$$

2 4

$$\boxed{19} - \boxed{10} = \boxed{9}$$

9 1

Answers - Subtraction calculations



Select a subtraction problem and show it on the ten frames to help you complete the calculation.

$$\boxed{12} - \boxed{3} = \boxed{9}$$

```
graph TD; 3[3] --> 2[2]; 3 --> 1[1];
```

$$\boxed{13} - \boxed{8} = \boxed{5}$$

```
graph TD; 8[8] --> 3[3]; 8 --> 5[5];
```

$$\boxed{13} - \boxed{9} = \boxed{4}$$

```
graph TD; 9[9] --> 3[3]; 9 --> 6[6];
```

$$\boxed{16} - \boxed{8} = \boxed{8}$$

```
graph TD; 8[8] --> 6[6]; 8 --> 2[2];
```

$$\boxed{16} - \boxed{9} = \boxed{7}$$

```
graph TD; 9[9] --> 6[6]; 9 --> 3[3];
```

$$\boxed{11} - \boxed{6} = \boxed{5}$$

```
graph TD; 6[6] --> 1[1]; 6 --> 5[5];
```

$$\boxed{15} - \boxed{7} = \boxed{8}$$

```
graph TD; 7[7] --> 5[5]; 7 --> 2[2];
```

$$\boxed{14} - \boxed{7} = \boxed{7}$$

```
graph TD; 7[7] --> 4[4]; 7 --> 3[3];
```

$$\boxed{14} - \boxed{8} = \boxed{6}$$

```
graph TD; 8[8] --> 4[4]; 8 --> 4[4];
```

$$\boxed{11} - \boxed{7} = \boxed{4}$$

```
graph TD; 7[7] --> 1[1]; 7 --> 6[6];
```

$$\boxed{12} - \boxed{6} = \boxed{6}$$

```
graph TD; 6[6] --> 2[2]; 6 --> 4[4];
```

$$\boxed{19} - \boxed{10} = \boxed{9}$$

```
graph TD; 10[10] --> 9[9]; 10 --> 1[1];
```