

# Addition Facts Within 20

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Score: \_\_\_\_\_ / 24

## Quick Review

**Addition** means putting two groups together to find how many in all. The numbers you add are **addends**, and the result is the **sum**. A helpful trick is **making a ten**: to add  $8 + 5$ , take 2 from the 5 to make 8 into 10, then  $10 + 3 = 13$ . You can also **count on** from the bigger number. Knowing your addition facts quickly makes all of math easier, so practice them until they feel automatic.

◇ **Example:** Find the sum:  $9 + 6$ .

⇒ Let's use the make-a-ten trick. We want to turn 9 into 10, and 9 needs just 1 more. Take 1 from the 6, which leaves 5. Now the problem becomes  $10 + 5$ , which is easy:  $10 + 5 = 15$ . So  $9 + 6 = 15$ .

**Answer:**  $9 + 6 = 15$

## PRACTICE

Add to find each sum.

- |             |       |             |       |
|-------------|-------|-------------|-------|
| 1. $7 + 5$  | _____ | 11. $3 + 8$ | _____ |
| 2. $8 + 4$  | _____ | 12. $7 + 8$ | _____ |
| 3. $6 + 6$  | _____ | 13. $5 + 5$ | _____ |
| 4. $9 + 9$  | _____ | 14. $9 + 7$ | _____ |
| 5. $5 + 8$  | _____ | 15. $6 + 9$ | _____ |
| 6. $7 + 7$  | _____ | 16. $8 + 6$ | _____ |
| 7. $4 + 9$  | _____ | 17. $4 + 7$ | _____ |
| 8. $8 + 8$  | _____ | 18. $9 + 5$ | _____ |
| 9. $6 + 7$  | _____ | 19. $7 + 6$ | _____ |
| 10. $9 + 8$ | _____ | 20. $8 + 9$ | _____ |

### Word Problems

21. Mia has 8 red crayons and 7 blue crayons. How many crayons does she have in all? \_\_\_\_\_
22. There are 6 ducks in a pond. Then 9 more ducks swim over. How many ducks are in the pond now? \_\_\_\_\_
23. Liam read 9 pages on Monday and 8 pages on Tuesday. How many pages did he read altogether? \_\_\_\_\_
24. A basket has 7 apples and 6 oranges. How many pieces of fruit are in the basket? \_\_\_\_\_



## Answer Keys

- |                                     |   |
|-------------------------------------|---|
| 1. <input type="text" value="12"/>  | 13. <input type="text" value="10"/>                 |
| 2. <input type="text" value="12"/>  | 14. <input type="text" value="16"/>                 |
| 3. <input type="text" value="12"/>  | 15. <input type="text" value="15"/>                 |
| 4. <input type="text" value="18"/>  | 16. <input type="text" value="14"/>                 |
| 5. <input type="text" value="13"/>  | 17. <input type="text" value="11"/>                 |
| 6. <input type="text" value="14"/>  | 18. <input type="text" value="14"/>                 |
| 7. <input type="text" value="13"/>  | 19. <input type="text" value="13"/>                 |
| 8. <input type="text" value="16"/>  | 20. <input type="text" value="17"/>                 |
| 9. <input type="text" value="13"/>  | 21. <input type="text" value="15 crayons"/>         |
| 10. <input type="text" value="17"/> | 22. <input type="text" value="15 ducks"/>           |
| 11. <input type="text" value="11"/> | 23. <input type="text" value="17 pages"/>           |
| 12. <input type="text" value="15"/> | 24. <input type="text" value="13 pieces of fruit"/> |

### Step-by-Step Explanations

- |  |   |
|--|---|
| <p>1. Make a ten: <math>7 + 3 = 10</math>, then <math>10 + 2 = 12</math>.</p> <p>2. Make a ten: <math>8 + 2 = 10</math>, then <math>10 + 2 = 12</math>.</p> <p>3. This is a double; <math>6 + 6 = 12</math>.</p> <p>4. This is a double; <math>9 + 9 = 18</math>.</p> <p>5. Make a ten: <math>8 + 2 = 10</math>, then <math>10 + 3 = 13</math>.</p> <p>6. This is a double; <math>7 + 7 = 14</math>.</p> <p>7. Make a ten: <math>9 + 1 = 10</math>, then <math>10 + 3 = 13</math>.</p> <p>8. This is a double; <math>8 + 8 = 16</math>.</p> <p>9. Use the double <math>6 + 6 = 12</math>, then add 1 more for 13.</p> <p>10. Use the double <math>8 + 8 = 16</math>, then add 1 more for 17.</p> <p>11. Make a ten: <math>8 + 2 = 10</math>, then <math>10 + 1 = 11</math>.</p> <p>12. Make a ten: <math>8 + 2 = 10</math>, then <math>10 + 5 = 15</math>.</p> | <p>13. This is a double; <math>5 + 5 = 10</math>.</p> <p>14. Make a ten: <math>9 + 1 = 10</math>, then <math>10 + 6 = 16</math>.</p> <p>15. Make a ten: <math>9 + 1 = 10</math>, then <math>10 + 5 = 15</math>.</p> <p>16. Make a ten: <math>8 + 2 = 10</math>, then <math>10 + 4 = 14</math>.</p> <p>17. Count on from 7: 8, 9, 10, 11.</p> <p>18. Make a ten: <math>9 + 1 = 10</math>, then <math>10 + 4 = 14</math>.</p> <p>19. Use the double <math>6 + 6 = 12</math>, then add 1 more for 13.</p> <p>20. Make a ten: <math>9 + 1 = 10</math>, then <math>10 + 7 = 17</math>.</p> <p>21. Put the groups together: <math>8 + 7 = 15</math>. Mia has 15 crayons.</p> <p>22. Add the ducks together: <math>6 + 9 = 15</math>. There are 15 ducks.</p> <p>23. Add the two days: <math>9 + 8 = 17</math>. Liam read 17 pages.</p> <p>24. Combine the fruit: <math>7 + 6 = 13</math>. There are 13 pieces of fruit.</p> |
|--|---|



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