

# 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. 12  | 13. 10                 |
| 2. 12  | 14. 16                 |
| 3. 12  | 15. 15                 |
| 4. 18  | 16. 14                 |
| 5. 13  | 17. 11                 |
| 6. 14  | 18. 14                 |
| 7. 13  | 19. 13                 |
| 8. 16  | 20. 17                 |
| 9. 13  | 21. 15 crayons         |
| 10. 17 | 22. 15 ducks           |
| 11. 11 | 23. 17 pages           |
| 12. 15 | 24. 13 pieces of fruit |

### Step-by-Step Explanations

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



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