

Grade 1 · The Equal Sign and Word Problems · Worksheet Answer Key

Common Core 1.OA.A.2, 1.OA.D.7, 1.OA.D.8 · mathovore.fr

Every problem has a full worked solution with the steps written out. Check each answer by putting the missing number back into the equation, then read the scale or number line again if a result looks wrong.

Grade 1 Common Core: 1.OA.A.2 · 1.OA.D.7 · 1.OA.D.8

Problem 1: Does the scale balance?

The scale shows $3+4=7$. The left side is $3+4$, which is 7. The right side is 7. Both sides match, and the scale is level.

The equation is **true**.

Problem 2: A scale that tips

The scale shows $6=4+1$. The left side is 6. The right side is $4+1=5$. Since 6 is not the same as 5, the scale tips to the left.

The equation is **false**.

Problem 3: True or false

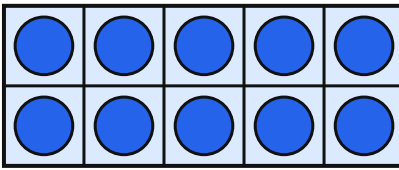
- a. Both sides are 6. **True**.
- b. Left side $5+2=7$, right side 7. **True**.
- c. Left side 9. Right side $3+5=8$. **False**.
- d. Left side 10. Right side $6+4=10$. **True**.

Problem 4: Both sides

- a. $4+4=8$ and $5+3=8$. **True**.
- b. $10-2=8$ and $6+3=9$. **False**.
- c. $7+0=7$ and $7-0=7$. **True**.
- d. $9-3=6$ and $2+4=6$. **True**.

Problem 5: Fill the ten frame

The frame has 3 empty boxes. Count them: 8, 9, 10. That is 3 more counters.



7 counters plus 3 more fill all 10 boxes.

$7+3=10$. The missing number is **3**.

Problem 6: Make it true

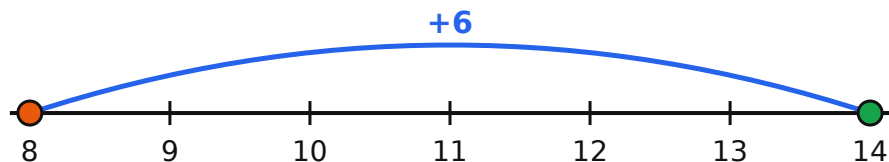
- a. $5+3=8$. **8**.
- b. $9-4=5$. **5**.
- c. $12=6+6$. **12**.
- d. $7=15-8$. **7**.

Problem 7: Missing addend

- a. Count up from 6 to 11: 5. $6+5=11$. **5**.
- b. Count up from 5 to 9: 4. $4+5=9$. **4**.
- c. Count up from 8 to 17: 9. $8+9=17$. **9**.
- d. Count up from 7 to 14: 7. $7+7=14$. **7**.

Problem 8: Jump on the number line

Count the steps from 8 to 14: 9, 10, 11, 12, 13, 14. That is 6 steps.



The jump is 6.

$8+6=14$. The missing number is **6**.

Problem 9: Missing subtraction number

- a. Count up from 5 to 12: 7. $12-7=5$. **7**.
- b. Count up from 9 to 15: 6. $15-6=9$. **6**.
- c. Add back: $7+6=13$. Check: $13-6=7$. **13**.
- d. Add back: $8+3=11$. Check: $11-3=8$. **11**.

Problem 10: Unknown on the right

- a. $13 = 5 + 8$. **5**.
- b. $16 = 9 + 7$. **7**.
- c. $15 - 4 = 11$. **4**.
- d. $18 - 9 = 9$. **9**.

Problem 11: Add three groups

Make a ten first: $4 + 6 = 10$. Then $10 + 5 = 15$.



4 and 6 make 10. Add 5 more.

$4 + 6 + 5 = 15$. The sum is **15**.

Problem 12: Add three numbers

- a. $2 + 8 = 10$, $10 + 5 = 15$. **15**.
- b. $7 + 3 = 10$, $10 + 6 = 16$. **16**.
- c. $5 + 5 = 10$, $10 + 9 = 19$. **19**.
- d. $3 + 3 = 6$, $6 + 4 = 10$. **10**.

Problem 13: Which equals 12?

- a. $5 + 7 = 12$. Yes.
- b. $20 - 8 = 12$. Yes.
- c. $9 + 4 = 13$. No.
- d. $6 + 6 = 12$. Yes.

The letters are **a, b, and d**.

Problem 14: Make both sides equal

- a. Left side 13. $10 + 3 = 13$. **3**.
- b. Left side 14. $10 + 4 = 14$. **10**.
- c. Right side $6 + 7 = 13$. $8 + 5 = 13$. **5**.
- d. Left side $12 - 5 = 7$. $4 + 3 = 7$. **4**.

Problem 15: Maya's markers

Add the three groups: $5 + 3 = 8$, then $8 + 6 = 14$.



5 red



3 blue



6 green

$5 + 3 + 6$ markers.

$5 + 3 + 6 = 14$. Maya has **14 markers**.

Problem 16: Jamal's stickers

The equation is $12 - ? = 7$. Count up from 7 to 12: 8, 9, 10, 11, 12. That is 5.

Check: $12 - 5 = 7$. Jamal gave away **5 stickers**.

Problem 17: Diego's toy cars

The equation is $9 + ? = 17$. From 9 to 10 is 1, and from 10 to 17 is 7. Together, $1 + 7 = 8$.

Check: $9 + 8 = 17$. Diego got **8 cars**.

Problem 18: Sofia's cookies

Add two numbers first: $4 + 5 = 9$. Then $9 + 7 = 16$.

$4 + 5 + 7 = 16$. Sofia bakes **16 cookies**.

Problem 19: Bus riders

Step 1: $8 + 3 = 11$. Step 2: $11 + 4 = 15$. Step 3: $15 - 6 = 9$.

9 children are still on the bus.

Problem 20: Priya's beads

The equation is $6 + 7 + ? = 20$. First, $6 + 7 = 13$. Count up from 13 to 20: 7.

Check: $6 + 7 + 7 = 20$. Priya has **7 yellow beads**.