

Numbers to 20 and Strategies: practice solutions, Grade 1 – download the PDF

Written solutions to the chapter problems. Check each step, then correct yourself.

1 Counting on from 6



We start at 6 and count on: 7, 8, 9, 10, 11. That is five numbers.

Answer: you land on **11**, so $6 + 5 = 11$.

2 Ten and some ones



a. $10 + 6 = 16$.

b. $15 = 10 + 5$.

c. $10 + 9 = 19$.

d. 12 is one ten and **2** ones.

Every teen number is a ten and some ones.

3 Missing numbers



a. 9, 10, **11**, 12, 13, **14**, 15.

b. 18, 19, 20, **21**, 22, **23**.

Each number is one more than the number before it, even after 20.

4 Easy doubles



- a. $3 + 3 = 6$
- b. $4 + 4 = 8$
- c. $6 + 6 = 12$
- d. $7 + 7 = 14$
- e. $9 + 9 = 18$

A double means the same number added twice.

5 Counting back



- a. 15: say 14, 13, 12. So $15 - 3 = 12$.
- b. 18: say 17, 16. So $18 - 2 = 16$.
- c. 12: say 11, 10, 9, 8. So $12 - 4 = 8$.
- d. 20: say 19. So $20 - 1 = 19$.

6 Sticker collection



We add: $9 + 4$. Start at 9 and count on 4: 10, 11, 12, 13.

Answer: Nina has **13 stickers**.

7 Count the counters



The first frame is full: 10 counters. The second frame has 7 counters.

$10 + 7 = 17$. There are **17 counters**.

8 True or false?



- a. True. Ten and five more is 15.
- b. False. $10 + 3 = 13$, and $12 = 10 + 2$.
- c. True. Taking the ten away from 16 leaves 6.

9 Make ten



- a. 9 needs 1 to make ten. Split 4 into 1 and 3. $9 + 1 = 10$, then $10 + 3 = 13$. So $9 + 4 = 13$.
- b. 8 needs 2. Split 6 into 2 and 4. $8 + 2 = 10$, then $10 + 4 = 14$. So $8 + 6 = 14$.
- c. 7 needs 3. Split 5 into 3 and 2. $7 + 3 = 10$, then $10 + 2 = 12$. So $7 + 5 = 12$.

10 Near doubles



- a. $6 + 6 = 12$, plus 1 is 13. So $6 + 7 = 13$.
- b. $8 + 8 = 16$, plus 1 is 17. So $8 + 9 = 17$.
- c. $5 + 5 = 10$, plus 1 is 11. So $5 + 6 = 11$.
- d. $7 + 7 = 14$, plus 1 is 15. So $7 + 8 = 15$.

11 Think addition



- a. $9 + 5 = 14$, so $14 - 9 = 5$.
- b. $8 + 5 = 13$, so $13 - 8 = 5$.
- c. $7 + 9 = 16$, so $16 - 7 = 9$.
- d. $5 + 7 = 12$, so $12 - 5 = 7$.

12 Fact family



The biggest number, 14, is the total.

$$6 + 8 = 14 \text{ and } 8 + 6 = 14.$$

$$14 - 6 = 8 \text{ and } 14 - 8 = 6.$$

13 Frog on the number line



Hop six times from 8: 9, 10, 11, 12, 13, 14.

The frog lands on 14, so $8 + 6 = 14$.

14 Muffin trays



We add $7 + 8$. We know $7 + 7 = 14$, and 8 is one more than 7.

$14 + 1 = 15$. The baker has 15 muffins.

15 Which is more?



$$8 + 5 = 13 \text{ and } 7 + 7 = 14.$$

14 is greater than 13, so $7 + 7$ is the greater sum.

16 Find the missing number



a. From 7 to 10 is 3, from 10 to 15 is 5, so $3 + 5 = 8$. $7 + 8 = 15$.

b. $13 - 6 = 7$. Check: $7 + 6 = 13$.

c. $18 - 9 = 9$, and $9 + 9 = 18$ is a double.

The missing numbers are 8, 7 and 9.

17 Marbles in a bag



Step 1: he gives away 5, so $18 - 5 = 13$. Count back: 17, 16, 15, 14, 13.

Step 2: he finds 3, so $13 + 3 = 16$.

Answer: Omar has **16 marbles**.

18 Find the mistake



Leo is not right. He used the double $6 + 6 = 12$, but 7 is one more than 6.

He must add one more: $12 + 1 = 13$. The correct answer is $6 + 7 = 13$.

19 Three numbers to make ten



a. $6 + 4 = 10$, then $10 + 5 = 15$.

b. $7 + 3 = 10$, then $10 + 8 = 18$.

c. $5 + 5 = 10$, then $10 + 9 = 19$.

Totals: **15, 18 and 19**.

20 Which ones make 16?



$8 + 8 = 16$, yes. $9 + 6 = 15$, no. $10 + 6 = 16$, yes. $20 - 4 = 16$, yes. $18 - 3 = 15$, no.
 $17 - 1 = 16$, yes.

The expressions equal to 16 are **$8 + 8$, $10 + 6$, $20 - 4$ and $17 - 1$** .

21 Two secret numbers



Think of a near double. Try $6 + 7 = 13$. Seven is 1 more than 6, so it works.

The secret numbers are **6 and 7**.

22

The school bus



First stop: $12 - 5$. Think $5 + 7 = 12$, so $12 - 5 = 7$.

Next stop: $7 + 6 = 13$. Check by making ten: $7 + 3 + 3 = 13$.

Answer: there are **13 children** on the bus.



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