Length on a Number Line

Name: _____	Date: _____	Score: _____ / 24

Quick Review

A **number line** is like a ruler stretched out. The numbers are spaced evenly, and the space between each pair of numbers is one **unit**. To show a length, start at one number and count the jumps to another number. To **add** on a number line, jump **forward**. To **subtract**, jump **backward**. The distance between two points is how far apart they are — you can find it by subtracting the smaller number from the bigger one.

◇ **Example:** On a number line, you start at 3 and jump forward 5 units. Where do you land?
⇒ On a number line, jumping forward means adding. We begin at the number 3. Then we make 5 jumps forward, counting $4, 5, 6, 7, 8$. We can also just add: $3 + 5 = 8$. So we land on the number 8.

Answer: 8

PRACTICE

Use the number line idea to answer each question.

1. Start at 4 and jump forward 6 units. Where do you land? _____

2. Start at 9 and jump backward 3 units. Where do you land? _____

3. How far apart are 5 and 12 on a number line? _____

4. Start at 0 and jump forward 8 units. Where do you land? _____

5. How far apart are 3 and 10 on a number line? _____

6. Start at 15 and jump backward 7 units. Where do you land? _____

7. Start at 6 and jump forward 9 units. Where do you land? _____

8. How far apart are 8 and 20 on a number line? _____

9. Start at 11 and jump backward 5 units. Where do you land? _____

10. Start at 2 and jump forward 13 units. Where do you land? _____

11. How far apart are 0 and 9 on a number line? _____

12. Start at 18 and jump backward 10 units. Where do you land? _____

13. Start at 7 and jump forward 7 units. Where do you land? _____

14. How far apart are 6 and 14 on a number line? _____

15. Start at 20 and jump backward 12 units. Where do you land? _____

16. Start at 5 and jump forward 10 units. Where do you land? _____

17. How far apart are 4 and 17 on a number line? _____

18. Start at 13 and jump backward 8 units. Where do you land? _____

19. A bug hops from 1 to 9 on a number line. How many units did it hop? _____

20. A frog jumps from 16 back to 10 on a number line. How many units back? _____

♦ Word Problems

21. A grasshopper sits at 4 on a number line. It jumps forward 7 units to reach a leaf. What number is the leaf on? _____

22. On a number line, a snail is at 15. It slides backward 6 units. What number is the snail on now? _____

23. Two ants are on a number line. One is at 3 and the other is at 13. How many units apart are the two ants? _____

24. A toy car starts at 2 on a number line. It rolls forward 9 units, then rolls back 4 units. What number is it on now? _____

Answer Keys

1. $\boxed{10}$
2. $\boxed{6}$
3. $\boxed{7 units}$
4. $\boxed{8}$
5. $\boxed{7 units}$
6. $\boxed{8}$
7. $\boxed{15}$
8. $\boxed{12 units}$
9. $\boxed{6}$
10. $\boxed{15}$
11. $\boxed{9 units}$
12. $\boxed{8}$
13. $\boxed{14}$
14. $\boxed{8 units}$
15. $\boxed{8}$
16. $\boxed{15}$
17. $\boxed{13 units}$
18. $\boxed{5}$
19. $\boxed{8 units}$
20. $\boxed{6 units}$
21. $\boxed{11}$
22. $\boxed{9}$
23. $\boxed{10 \text{ units}}$
24. $\boxed{7}$

Step-by-Step Explanations

1. Jumping forward means add: $4 + 6 = 10$.
2. Jumping backward means subtract: $9 - 3 = 6$.
3. Subtract the smaller from the bigger: $12 - 5 = 7$ units.
4. Jumping forward means add: $0 + 8 = 8$.
5. Subtract: $10 - 3 = 7$ units apart.
6. Jumping backward means subtract: $15 - 7 = 8$.
7. Jumping forward means add: $6 + 9 = 15$.
8. Subtract: $20 - 8 = 12$ units apart.
9. Jumping backward means subtract: $11 - 5 = 6$.
10. Jumping forward means add: $2 + 13 = 15$.
11. Subtract: $9 - 0 = 9$ units apart.
12. Jumping backward means subtract: $18 - 10 = 8$.
13. Jumping forward means add: $7 + 7 = 14$.
14. Subtract: $14 - 6 = 8$ units apart.
15. Jumping backward means subtract: $20 - 12 = 8$.
16. Jumping forward means add: $5 + 10 = 15$.
17. Subtract: $17 - 4 = 13$ units apart.
18. Jumping backward means subtract: $13 - 8 = 5$.
19. Subtract: $9 - 1 = 8$ units hopped.
20. Subtract: $16 - 10 = 6$ units backward.
21. Jumping forward on a number line means adding: $4 + 7 = 11$. The leaf is on 11.
22. Sliding backward means subtracting: $15 - 6 = 9$. The snail is now on 9.
23. To find the distance, subtract the smaller from the bigger: $13 - 3 = 10$ units apart.
24. First add the forward roll: $2 + 9 = 11$. Then subtract the roll back: $11 - 4 = 7$. The car is on 7.

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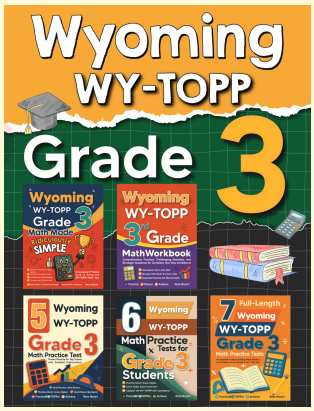

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