Integer Addition and Subtraction

Name: _____ Date: _____ Score: _____ / 24

Quick Review

To **add integers with the same sign**, add their absolute values and keep the sign. To **add integers with different signs**, subtract the smaller absolute value from the larger and take the sign of the number that is farther from zero. For **subtraction**, use the rule **"add the opposite"**: $a - b$ becomes $a + (-b)$. So $4 - 9 = 4 + (-9) = -5$, and $-5 - (-8) = -5 + 8 = 3$. Picture moving on a number line: adding a positive moves right, adding a negative moves left.

◇ **Example:** Find $-8 + 5$.

⇒ The two numbers have different signs, so we will subtract their absolute values. The absolute values are 8 and 5; the larger is 8, and $8 - 5 = 3$. Now, which sign does the answer take? It takes the sign of the number farther from zero, and that is -8, which is negative. So the answer is -3. Picture it on a number line: start at -8, move 5 steps right, and you land on -3.

Answer: -3

PRACTICE

Add or subtract the integers.

1. $-8 + 5$ _____

2. $10 + (-4)$ _____

3. $7 + (-12)$ _____

4. $-6 + (-9)$ _____

5. $-7 + (-7)$ _____

6. $-15 + 15$ _____

7. $-20 + 12$ _____

8. $13 + (-20)$ _____

9. $-18 + 25$ _____

10. $4 - 9$ _____

11. $8 - 15$ _____

12. $-3 - 7$ _____

13. $-9 - 4 + 6$ _____

14. $-5 - (-8)$ _____

15. $6 - (-5)$ _____

16. $-2 - (-2)$ _____

17. $-11 - (-4)$ _____

18. $0 - (-6)$ _____

19. $3 + (-8) + 5$ _____

20. $-1 + (-1) + (-1)$ _____

Word Problems

21. The temperature was $-5°$F in the morning and rose $18°$F by afternoon. What was the afternoon temperature? _____

22. A submarine starts at -120 feet, rises 45 feet, then dives 30 feet. What is its final depth? _____

23. A bank account has a balance of $-\$8$ (overdrawn). After a deposit, the change is $-(-15)$ dollars. What is the new balance? _____

24. In a game, Priya loses 2 points, then 3 points, then 4 points. What is her total change in score? _____

Answer Keys

1. -3
2. 6
3. -5
4. -15
5. -14
6. 0
7. -8
8. -7
9. 7
10. -5
11. -7
12. -10
13. -7
14. 3
15. 11
16. 0
17. -7
18. 6
19. 0
20. -3
21. $13°\text{F}$
22. -105 feet
23. \$7
24. -9 points

Step-by-Step Explanations

1. Different signs: $8 - 5 = 3$, and the sign follows -8, so -3.
2. Different signs: $10 - 4 = 6$, and the sign follows 10, so 6.
3. Different signs: $12 - 7 = 5$, and the sign follows -12, so -5.
4. Same sign: add absolute values $6 + 9 = 15$ and keep the sign, so -15.
5. Same sign: $7 + 7 = 14$, keep the negative sign, so -14.
6. A number plus its opposite is always 0.
7. Different signs: $20 - 12 = 8$, sign follows -20, so -8.
8. Different signs: $20 - 13 = 7$, sign follows -20, so -7.
9. Different signs: $25 - 18 = 7$, sign follows 25, so 7.
10. Add the opposite: $4 + (-9) = -5$.
11. Add the opposite: $8 + (-15) = -7$.
12. Add the opposite: $-3 + (-7) = -10$.
13. Work left to right: $-9 - 4 = -13$, then $-13 + 6 = -7$.
14. Add the opposite: $-5 + 8 = 3$.
15. Add the opposite: $6 + 5 = 11$.
16. Add the opposite: $-2 + 2 = 0$.
17. Add the opposite: $-11 + 4 = -7$.
18. Add the opposite: $0 + 6 = 6$.
19. Work left to right: $3 + (-8) = -5$, then $-5 + 5 = 0$.
20. Same sign each time: $-1 + (-1) + (-1) = -3$.
21. Start at -5 and add the rise: $-5 + 18 = 13$, so the afternoon temperature was $13°\text{F}$.
22. Rising adds, diving subtracts: $-120 + 45 - 30 = -105$ feet.
23. The deposit removes the negative: $-8 - (-15) = -8 + 15 = 7$, so the new balance is \$7.
24. Each loss is negative: $-2 + (-3) + (-4) = -9$ points.

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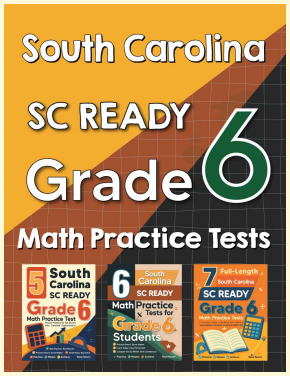

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