# Chapter 3 Test Review

SCORE _____

**Write an integer for each situation.**

**1.** a loss of $13

1. _____

**2.** a $45 deposit

2. _____

**For Exercises 4–6, evaluate each expression.**

**3.** $|-13|$

3. _____

**4.** $|3|+|-5|$

4. _____

**5.** $|-5|-|7-4|$

5. _____

**6.** Graph the set of integers on a number line: $\{-6, 2, -3\}$.

6. 

**7.** The temperature on the Moon varies from $-173°C$ to $127°C$. Find the difference between the maximum and minimum temperatures.

7. _____

**8.** What value of $w$ makes $19-(-10)=w$ a true sentence?

8. _____

**9.** What value of $c$ makes $-9(3)=c$ a true sentence?

9. _____

**10.** What value of $k$ makes $(-3)+(-14)=k$ a true sentence?

10. _____

**11.** What value of $d$ makes $-25-(-16)=d$ a true sentence?

11. _____

**Evaluate each expression.**

**12.** $\dfrac{-60}{-3}$

12. _____

**13.** $(-5)^2$

13. _____

**14.** $8 \div (-4)$

14. _____

**15.** $6(-7)$

15. _____

**16.** $-5(-3)$

16. _____

**17.** Jean saved up $750 for summer vacation. If she spends
$30 a week for nine weeks, how much money does she
have left from her savings? Explain.

17. _____

**Evaluate each expression if $a = -8$, $b = 5$, and $c = -2$.**

**18.** $16 \div c$

18. _____

**19.** $-5(3c)$

19. _____

**20.** $a + b$

20. _____

**21.** $ab$

21. _____

**22.** $a - c$

22. _____

**23.** $\dfrac{ab}{10}$

23. _____

**24.** Isabella and Scott created a rectangular jewelry box. The length
of the jewelry box $y$ in inches is represented by the numerical

expression $-6 + 11 + (-3)$. The width of the jewelry box $x$

in inches is represented by the numerical expression $4 + (-7) + 6$.
The point on the graph represents the bottom left corner of the jewelry
box. Draw a rectangle that represents the jewelry box. Each grid line
represents 1 inch.

24.
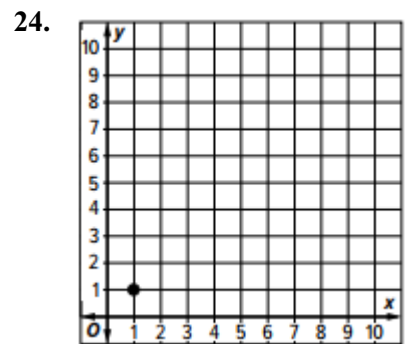

**25.** A car drove and up and down through the mountains. It went up a vertical distance of 10 feet, down a vertical
distance of 5 feet, up a vertical distance of 12 feet, and down a vertical distance of 7 feet.

*Part A:* Write an addition expression to represent the distances the car traveled up and down during that drive.

*Part B:* What was the elevation of the car by the end of the drive in relation to where it started driving?

**72**

**26.** The highest elevation in California is 14,494 feet above sea level and as low as $-282$ feet.

    ***Part A:*** Write a subtraction expression that represents the difference between elevation of the highest and the lowest points in California.

    ***Part B:*** What is the difference between the elevation of the highest and the lowest points of California?

**27.** Brandon and Kierlyn had to solve the problem at the top or the table below. The table shows the steps they took in solving the problem.

|  | $-5\left(-8+4\right)+3(-4)$ |
|---|---|
| Step 1 | $-5\left(-4\right)+3(-4)$ |
| Step 2 | $=-20+(-12)$ |
| Step 3 | $=-32$ |

    ***Part A:*** During which step did Brandon and Kierlyn make their first mistake?

    ***Part B:*** What mistake did they make? Explain with words or numbers.

    ***Part C:*** What is the correct answer to the entire problem $-5\left(-8+4\right)+3(-4)$?

**28.** Use number from the box to build a multiplication expression the simplifies to a negative product (answer).

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| $-4$ | $-3$ | $-2$ | $-1$ |
|---|---|---|---|
| $0$ | $1$ | $2$ | $3$ |

**29.** The lowest recorded temperature in Wisconsin in $-58°F$ on February 4, 1996. Use the expression $\dfrac{5(F-32)}{9}$ to find this temperature in degrees Celsius.