

1. Evaluate: $\frac{-3y}{4}$ when $y = -8$ and $\frac{4a^2}{d}$ when $a = -4$ and $d = -8$

Numbers 2 to 4: Solve the following equations using balancing; then check your solutions.

2. $\frac{c}{-8} = -16$ check 3. $3 = y + 17$ check 4. $-4x = -24$ check

5. Find the average of the following heights above and below sea level.
 $-6 \text{ ft.}, 7 \text{ ft.}, -9 \text{ ft.}, 3 \text{ ft.}, -12 \text{ ft.}, 0 \text{ ft.}, 8 \text{ ft.}, -7 \text{ ft.}$

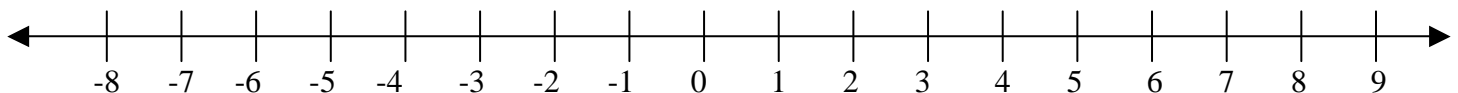
Numbers 6 and 7: Simplify, if possible. Then evaluate the expression for the given value(s).

6. $-12a + 4a - 20$ for $a = -4$ 7. $|8 - b|$ for $b = 12$ and $b = -12$

8. Order the following integers from least to greatest: $14, -16, -8, 12, 8, 2, -7, 0$

9. Your stock went down \$30, then up \$55, then up again \$2, then down \$44, then up \$4. Have you lost or gained money at the end of the above cycle? How much did you gain or lose?

10. Use the number line to add: $-3 + (-2) - (+1) + 8$



Numbers 11 and 12: Simplify.

11. $-5[-2^4 + 3(-8)]$

12. $-7(9x^3 - 6x^2 - 5x + 12)$

Numbers 13 to 20: Find the sums, differences, products, and/or quotients.

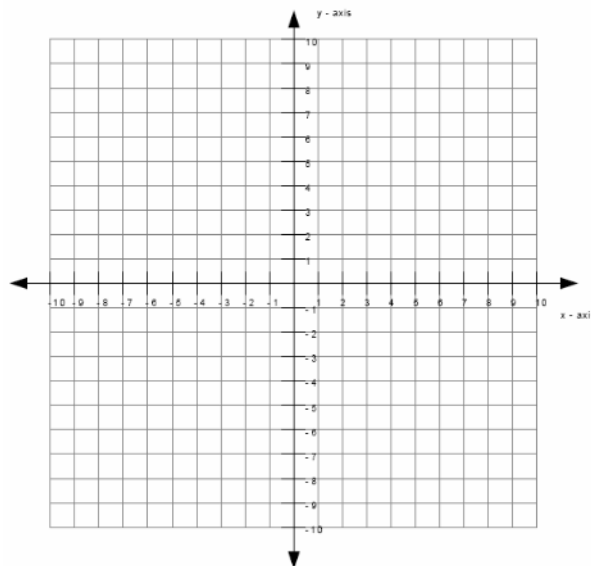
13. $17 - (+14)$ 14. $15(-9)$ 15. $\frac{-75}{15}$ 16. $-13 + (-30)$

17. $-17 + (-25) - (-13)$ 18. $-3^2(-3)^2(8^0)$ 19. $(3)(-4)(-2)(-1)(2)$ 20. $\frac{9(-4)}{-3(-2)}$

21. Plot the following ordered pair:
 $(-7, -4)$ $(-7, 6)$ $(5, 6)$ $(5, -4)$
 Connect the dots to form a rectangle.

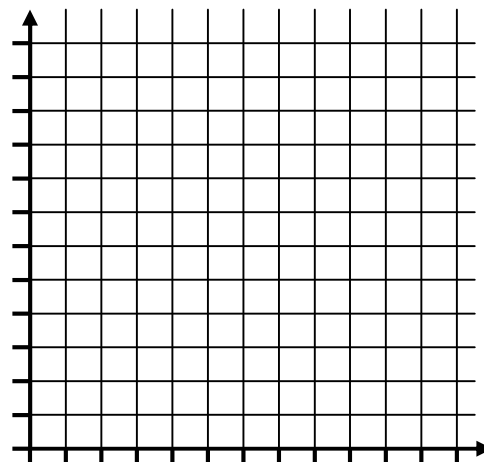
22. Find the perimeter of the rectangle.

23. Find the area of the rectangle.



24. **Graph these data** of the age of cars and the price of cars as a scatter plot. Put the price of cars on the y-axis.

Age	Price
3	\$5000
4	\$4000
5	\$9000
2	\$7000
3	\$6000
2	\$9000
3	\$4000



25. What is the correlation?

26. **Translate the following sentence into an equation and solve the equation.**
 Four times the difference of a number is the same as -44. Find the number.