

Name: _____

Class: _____

Date: _____

1. Place the correct symbol (<, =, or >) between the two numbers:

(a) $-(-3)$ _____ 3 1(a) _____

(b) $-|4|$ _____ $|4|$ 1(b) _____

(c) $|-34|$ _____ 34 1(c) _____

(d) -5 _____ -10 1(d) _____

(e) 5 _____ $-|5|$ 1(e) _____

(f) 4 _____ -8 1(f) _____

(g) The opposite of the opposite of 7 _____ the opposite of (-7) 1(g) _____

(h) The opposite of $|5|$ _____ the absolute value of 5 1(h) _____

(i) $+ - 15$ _____ -15 1(i) _____

(j) $- - - - -10$ _____ 10 1(j) _____

2. Evaluate the following expressions:

(a) $(-3)^2$ 2(a) _____

(b) -3^2 2(b) _____

(c) -2^3 2(c) _____

(d) $(-2)^3$ 2(d) _____

(e) $\left(\frac{4}{5}\right)^3$ 2(e) _____

(f) $(-0.6)^2$ 2(f) _____

Simplify the following expressions

3. $-7 + (-8)$

3. _____

4. $-3(-5)$

4. _____

5. $-18 + 6$

5. _____

6. $4 - 12$

6. _____

7. $4(12)$

7. _____

8. $5 + 7$

8. _____

9. $(-5) - (-4)$

9. _____

10. $(-4)(8)$

10. _____

11. $5 \cdot 6$

11. _____

12. $(-3)(-7)$

12. _____

13. $(5)(-11)$

13. _____

14. $\frac{-4}{12}$

14. _____

15. $\frac{-30}{-6}$

15. _____

16. $\frac{-5}{0}$

16. _____

17. $\frac{0}{-5}$

17. _____

18. $\frac{2}{7} - \frac{1}{3}$

18. _____

19. $-\frac{3}{5} \div \left(-\frac{6}{15}\right)$

19. _____

20. $\frac{5}{18} \times \left(-\frac{6}{25}\right)$

20. _____

21. $\frac{3}{5} + \left(-\frac{5}{9}\right)$

21. _____

22. $-\left(\frac{2}{3}\right) - \left(-\frac{4}{5}\right)$

22. _____

23. $+3.27 - 4.9$

23. _____

24. $(-1.6)(-4.9)$

24. _____

25. $(-4.8) + (-3.2)$

25. _____

26. $(-38.665) \div (9.5)$

26. _____

27. $4 + (-9) \div (-3)$

27. _____

28. $10 + 24 \div 8 \times 3 - 5$

28. _____

29. $6 + (-8) - (-3)$

29. _____

30. $6 + (2 - 5)^3 + (-3)(-5)$

30. _____

31. $-5 \times 3^2 - 2 \times (5 - 2) + (-2)^3$

31. _____

32. $4 \times 2 - 3 \times 7$

32. _____

33. $(2 - 5)^2 + (4 - 2)^3$

33. _____

34. $4^2 - 3^2 - 4$

34. _____

35. $-\frac{1}{2} + \frac{3}{8} \div \left(-\frac{3}{4}\right)$

35. _____

36. $\frac{3}{8} \div \left(-\frac{3}{4}\right)^2 + 2$

36. _____

37. $(-0.4)^2 \times (1.5) - 2.15$

37. _____

38. $(4.23 - 6.95) \times (0.5)^2$

38. _____

39. Scientific Notation:

- (a) Write the number in scientific notation: 45,000,000. 39(a) _____
- (b) Write the number in decimal notation: 3.9×10^{-3} 39(b) _____
- (c) Write the number in scientific notation: 0.000 56 39(c) _____
- (d) Write the number in decimal notation: 3.255×10^4 39(d) _____

40. Evaluate the following expressions:

- (a) What is the difference between 8 and -5? 40(a) _____
- (b) What is the sum of -4 and 3? 40(b) _____
- (c) What is the product of -4 and 3? 40(c) _____
- (d) Subtract 4 from -6. 40(d) _____
- (e) What is the quotient of -25 and 5? 40(e) _____
- (f) Find -3 less than -5? 40(f) _____
- (g) What is the total of 2, -3, -8, and 12? 40(g) _____
- (h) What is -60 divided by -2? 40(h) _____
- (i) What is 8 decreased by 2? 40(i) _____
- (j) What is -6 multiplied by 5? 40(j) _____