

REVIEW OF COMBINING SIGNED NUMBERS

NAME _____

RULES: Same Signs → find the Sum and put the Same Sign.

Different Signs → find the Difference and put the sign of the one with the larger absolute value.

$$\left. \begin{array}{l} 3 + 4 = 7 \\ -3 - 4 = -7 \end{array} \right\} \text{ Same signs}$$

three or more – do two at a time

$$\begin{array}{r} 6 - 10 + 7 \\ -4 + 7 \\ 3 \end{array}$$

$$\left. \begin{array}{l} -3 + 4 = 1 \\ 3 - 4 = -1 \end{array} \right\} \text{ Different signs}$$

1. $-15 + 3$	16. $21 - 8$	31. $6 + 10 + 4$	46. $-2\frac{1}{2} + 3\frac{1}{2}$
2. $32 - 212$	17. $-5 - 5$	32. $6 - 10 - 4$	47. $3\frac{1}{2} - 2\frac{1}{2}$
3. $16 + 7$	18. $-2 - 3$	33. $-6 - 10 - 4$	48. $3\frac{1}{4} - 3\frac{1}{4}$
4. $-12 - 4$	19. $-8 + 5$	34. $-4 - 10 + 4$	49. $-1\frac{1}{3} - 2\frac{1}{3}$
5. $-12 + 4$	20. $7 - 10$	35. $-6 + 10 + 4$	50. $3 - 2\frac{1}{2}$
6. $12 - 4$	21. $-21 - 33$	36. $6 - 1 - 5$	51. $-2\frac{1}{2} + 3$
7. $12 + 4$	22. $-1 + 9$	37. $2 + 7 - 9$	52. $-3 + 6\frac{1}{4}$
8. $2 + 5$	23. $-13 + 6$	38. $-2 - 7 + 9$	53. $5.8 - 4.8$
9. $-2 + 5$	24. $-11 - 3$	39. $6 + 5 - 1 + 4$	54. $-5.3 + 5.3$
10. $-2 - 5$	25. $-13 + 32$	40. $-3 - 7 + 4 + 2$	55. $7.0 - 2.5$
11. $2 - 5$	26. $57 - 75$	41. $-11 - 12 + 6 + 10$	56. $7.6 + 8.3$
12. $-7 - 11$	27. $-11 + 3$	42. $74 + 6 - 7 - 2$	57. $-7.6 - 8.3$
13. $15 + 6$	28. $-17 + 2$	43. $-54 - 16 + 13$	58. $-5.4 + 6.8$
14. $21 - 18$	29. $-57 - 75$	44. $6 - 8 + 2$	59. $-7.8 - 9.2 + 3$
15. $5 + 5$	30. $-85 + 32$	45. $17 + 1 - 18$	60. $-8.9 + 3.7 - 5$

DOUBLE NEGATIVE REVIEW

NAME _____

RULE: $a - (-b)$ means $a + b$

EXAMPLES:

$$\begin{array}{r} 5 - (-6) \\ 5 + 6 \\ 11 \end{array}$$

$$\begin{array}{r} -7 - (-3) \\ -7 + 3 \\ -4 \end{array}$$

$$\begin{array}{r} -15 - (-3) \\ -15 + 3 \\ -12 \end{array}$$

$$\begin{array}{r} (-2) - (-2) \\ -2 + 2 \\ 0 \end{array}$$

PROBLEMS:

1. $13 - (-13)$

8. $6 - (-6)$

15. $-2.5 - (-1.5)$

22. $(-4) - (-7)$

2. $-13 - (-13)$

9. $-6 - (-6)$

16. $-2.5 - (7.3)$

23. $(-0.5) - (-0.8)$

3. $17\frac{1}{3} - \left(-8\frac{1}{4}\right)$

10. $13\frac{2}{5} - \left(-2\frac{3}{5}\right)$

17. $2\frac{1}{2} - \left(-3\frac{1}{2}\right)$

24. $8\frac{1}{8} - \left(-8\frac{1}{8}\right)$

4. $-3 - (-2)$

11. $-16 - (-25)$

18. $-5 - (-6)$

25. $25.6 - (-5)$

5. $-10 - (-10)$

12. $17 - (-17)$

19. $-12 - (-25)$

26. $-38 - (-38)$

6. $87 - (-87)$

13. $3.2 - (-9.2)$

20. $7 - (-4)$

27. $(-1.8) - (-1.8)$

7. $3 - (-4)$

14. $28 - (-28)$

21. $16.7 - (-25.2)$

28. $(54) - (-54)$

SIGNED NUMBER PRACTICE

NAME _____

DOUBLE NEGATIVE PRACTICE**MIXED PRACTICE**

1. $6 - (-2) =$ _____

2. $36 - (-15) =$ _____

3. $-36 - (-9) =$ _____

4. $36 - (-9) =$ _____

5. $-12 - (-25) =$ _____

6. $12 - (-25) =$ _____

7. $-25 - (-12) =$ _____

8. $25 - (-12) =$ _____

9. $-3.7 - (-5.2) =$ _____

10. $6.9 - (-9.2) =$ _____

11. $-3 - (-2) =$ _____

12. $3 - (-2) =$ _____

13. $-3 - (-4) =$ _____

14. $3 - (-4) =$ _____

15. $5 - (-5) =$ _____

16. $-16 - (-5) =$ _____

17. $-9 - (-4) =$ _____

18. $\frac{1}{2} - \left(-\frac{1}{2}\right) =$ _____

19. $-\frac{1}{2} - \left(-\frac{1}{2}\right) =$ _____

20. $6 - 6 =$ _____

21. $5 - 6 =$ _____

22. $6 - 5 =$ _____

23. $-6 + 5 =$ _____

24. $-6 - (-5) =$ _____

25. $5 + 6 =$ _____

26. $6 - (-5) =$ _____

27. $5 - (-6) =$ _____

28. $-5 - (-6) =$ _____

29. $8 - 4 =$ _____

30. $-7 - 3 =$ _____

31. $-9 - (-1) =$ _____

32. $6 - (-7) =$ _____

33. $4 - (-8) =$ _____

34. $-8 - (-8) =$ _____

35. $7 - (-10) + 3 =$ _____

36. $-8 - (-4) + 4 =$ _____

37. $3 - (-2) - 6 =$ _____

38. $14 + 4 - 4 =$ _____

MULTIPLICATION & DIVISION OF SIGNED NUMBERS

NAME _____

RULES FOR TWO NUMBERS:
 SAME SIGNS → ANSWER IS POSITIVE (+)
 DIFFERENTS SIGNS → ANSWER IS NEGATIVE (-)

<p>SAME SIGNS {</p> $\begin{aligned} (3)(4) &= 12 \\ (-3)(-4) &= 12 \\ \frac{18}{6} &= 3 \\ \frac{-18}{-6} &= 3 \end{aligned}$	<p>DIFFERENT SIGNS {</p> $\begin{aligned} (-3)(4) &= -12 \\ (3)(-4) &= -12 \\ \frac{-18}{6} &= -3 \\ \frac{18}{-6} &= -3 \end{aligned}$
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MULTIPLY	DIVIDE	CAREFUL!!!!
1. $(9)(8) =$	21. $-10 \div (-5) =$	41. $(-3)(-2) =$
2. $(-11)(-7) =$	22. $-50 \div 2 =$	42. $-3 - 2 =$
3. $(-17)(3) =$	23. $-4 \div 2 =$	43. $-3 - (-2) =$
4. $(23)(5) =$	24. $-10 \div (-2) =$	44. $(-10)(-8) =$
5. $(36)(-2) =$	25. $15 \div (-15) =$	45. $10 \div (-2) =$
6. $(-15)(-8) =$	26. $10 \div (-2) =$	46. $(-13)(-1) =$
7. $(-25)(-8) =$	27. $18 \div 9 =$	47. $10 - 12 =$
8. $(-25)(-4) =$	28. $-50 \div (-5) =$	48. $-10 + 12 =$
9. $(6)(8) =$	29. $-34 \div (-2) =$	49. $-10 - (-12) =$

10. $(-10)(9) =$	30. $-100 \div (-5) =$	50. $18 + 2 - 20 =$
11. $(0)(8) =$	31. $-9.6 \div (-0.3) =$	51. $(-13)(-3) =$
12. $(-0.25)(80) =$	32. $5.2 \div (-4) =$	52. $-13 - 2 =$
13. $(-1.5)(2.4) =$	33. $55 \div (-11) =$	53. $0 \div (-12) =$
14. $(-6)(-5) =$	34. $-70 \div 0 =$	54. $-12 - (-3) =$
15. $(15)(-0.6) =$	35. $20 \div (-5) =$	55. $-50 - 3 =$
16. $(-9)(0) =$	36. $0 \div 5 =$	56. $3.8 \div 0 =$
17. $\left(\frac{2}{3}\right)\left(\frac{18}{27}\right) =$	37. $-\frac{3}{4} \div \frac{5}{8} =$	57. $\left(-\frac{4}{5}\right)\left(1\frac{9}{16}\right) =$
18. $\left(\frac{3}{5}\right)(-20) =$	38. $\frac{5}{6} \div \frac{5}{6} =$	58. $\frac{28}{36} \div \left(-\frac{7}{12}\right) =$
19. $\left(-\frac{1}{2}\right)\left(-\frac{1}{3}\right) =$	39. $-\frac{4}{7} \div \left(-\frac{3}{4}\right) =$	59. $1\frac{3}{4} + 5\frac{4}{9} =$
20. $\left(-\frac{1}{3}\right)\left(\frac{2}{9}\right) =$	40. $\left(-\frac{1}{2}\right) \div \left(-\frac{1}{3}\right) =$	60. $15\frac{1}{3} - 3\frac{5}{8} =$

USE THE ORDER OF OPERATIONS TO WORK THESE EXERCISES.

1. $7 + 3 \cdot 2 - 8$	2. $(-2)(-6) \div (-3)$	3. $-5 + 3(-2) - 9$
4. $(-11 + 3) + 4$	5. $[(-3 + 2) - 7] - 6$	6. $(-2 - 7) + 57$
7. $\frac{13 - 13 + 7(2)}{-7 - (-4)}$	8. $\frac{-6 + (-13) - 2(-4)}{8 + 3}$	9. $\frac{3 \div 3 \cdot 7 + 6}{2 + 5 - 6}$
10. $2(-1)^3 \div (-2) \cdot (-6) - 4$	11. $5 + (3 \cdot (-2)^2) + 7 - (3 + 4)$	

SIGNED NUMBERS MIXED PRACTICE

NAME _____

1. $(-9)(-5)$	11. $-7 + (-2)(7)$	21. $-50 \div 2 + 17 - 8(2)$
2. $-9 - 5$	12. $5 + 7 - 6 + 2$	22. $5(3)^3 \div [3(-9)] - 4$
3. $-9 + 5$	13. $(-2)(-17) + 6$	23. $7(-2)^4 \div [8(-2)] - 7$
4. $-45 \div (-9)$	14. $-3(4) - 8$	24. $13 \div (-13) + 0 \div (-15)$
5. $-9 - (-10)$	15. $-100 \div [2(2)] + 7$	25. $33(-6) + 7(-2)$
6. $-3 + 7 - 8$	16. $5^4 \div 5^3 - 4$	26. $(8 - (-6))^2 + 2$
7. $-2(-3)$	17. $28 - (3 + 4)$	27. $6(-5)^3 \div 25(-2) - 5$
8. $-2(-3) + 2$	18. $54 \div 3^3 \bullet (-7)$	28. $\frac{14+7}{-3}$
9. $28 \div (-7)(-2)$	19. $(7)(-2)(0)(-1)(-9)$	29. $\frac{-2(-3)+7}{-6-(-7)}$
10. $(-2)^3 + 7$	20. $-9 - (-9)$	30. $\frac{-2(-3)^3+6}{-4-(-1)+1}$

Answers to Review of Combining Signed Numbers:

- | | | | |
|---------|----------|---------|---------------------|
| 1) -12 | 16) 13 | 31) 20 | 46) 1 |
| 2) -180 | 17) -10 | 32) -8 | 47) 1 |
| 3) 23 | 18) -5 | 33) -20 | 48) 0 |
| 4) -16 | 19) -3 | 34) -10 | 49) $-3\frac{2}{3}$ |
| 5) -8 | 20) -3 | 35) 8 | 50) $\frac{1}{2}$ |
| 6) 8 | 21) -54 | 36) 0 | 51) $\frac{1}{2}$ |
| 7) 16 | 22) 8 | 37) 0 | 52) $3\frac{1}{4}$ |
| 8) 7 | 23) -7 | 38) 0 | 53) 1 |
| 9) 3 | 24) -14 | 39) 14 | 54) 0 |
| 10) -7 | 25) 19 | 40) -4 | 55) 4.5 |
| 11) -3 | 26) -18 | 41) -7 | 56) 15.9 |
| 12) -18 | 27) -8 | 42) 71 | 57) -15.9 |
| 13) 21 | 28) -15 | 43) -57 | 58) 1.4 |
| 14) 3 | 29) -132 | 44) 0 | 59) -14 |
| 15) 10 | 30) -53 | 45) 0 | 60) -10.2 |

Double Negative Review:

- | | | | |
|---------------------|----------|----------|---------------------|
| 1) 26 | 8) 12 | 15) -1 | 22) 3 |
| 2) 0 | 9) 0 | 16) -9.8 | 23) 0.3 |
| 3) $25\frac{7}{12}$ | 10) 16 | 17) 6 | 24) $16\frac{1}{4}$ |
| 4) -1 | 11) 9 | 18) 1 | 25) 30.6 |
| 5) 0 | 12) 34 | 19) 13 | 26) 0 |
| 6) 174 | 13) 12.4 | 20) 11 | 27) 0 |
| 7) 7 | 14) 56 | 21) 41.9 | 28) 108 |

Signed Number Practice:

- | | |
|--------|--------|
| 1) 8 | 20) 0 |
| 2) 51 | 21) -1 |
| 3) -27 | 22) 1 |
| 4) 45 | 23) -1 |
| 5) 13 | 24) -1 |

Signed Number Practice (continued):

- | | | | |
|-----|------|-----|------|
| 6) | 37 | 25) | 11 |
| 7) | - 13 | 26) | 11 |
| 8) | 37 | 27) | 11 |
| 9) | 1.5 | 28) | 1 |
| 10) | 16.1 | 29) | 4 |
| 11) | - 1 | 30) | - 10 |
| 12) | 5 | 31) | - 8 |
| 13) | 1 | 32) | 13 |
| 14) | 7 | 33) | 12 |
| 15) | 10 | 34) | 0 |
| 16) | - 11 | 35) | 20 |
| 17) | - 5 | 36) | 0 |
| 18) | 1 | 37) | - 1 |
| 19) | 0 | 38) | 14 |

Multiplication and Division of Signed Numbers:

- | | | | | | |
|-----|---------------|-----|----------------|-----|----------------|
| 1) | 72 | 21) | 2 | 41) | 6 |
| 2) | 77 | 22) | - 25 | 42) | - 5 |
| 3) | - 51 | 23) | - 2 | 43) | - 1 |
| 4) | 115 | 24) | 5 | 44) | 80 |
| 5) | - 72 | 25) | - 1 | 45) | - 5 |
| 6) | 120 | 26) | - 5 | 46) | 13 |
| 7) | 200 | 27) | 2 | 47) | - 2 |
| 8) | 100 | 28) | 10 | 48) | 2 |
| 9) | 48 | 29) | 17 | 49) | 2 |
| 10) | - 90 | 30) | 20 | 50) | 0 |
| 11) | 0 | 31) | 32 | 51) | 39 |
| 12) | - 20 | 32) | - 1.3 | 52) | - 15 |
| 13) | - 3.6 | 33) | - 5 | 53) | 0 |
| 14) | 30 | 34) | Undefined | 54) | - 9 |
| 15) | - 9 | 35) | - 4 | 55) | - 53 |
| 16) | 0 | 36) | 0 | 56) | Undefined |
| 17) | $\frac{4}{9}$ | 37) | $-\frac{6}{5}$ | 57) | $-\frac{5}{4}$ |

Multiplication and Division of Signed Numbers (continued):

- | | | |
|---------------------|---------------------|-----------------------|
| 18) -12 | 38) 1 | 58) $-\frac{4}{3}$ |
| 19) $\frac{1}{6}$ | 39) $\frac{16}{21}$ | 59) $7\frac{7}{36}$ |
| 20) $-\frac{2}{27}$ | 40) $\frac{3}{2}$ | 60) $11\frac{17}{24}$ |

Order of Operations:

- | | | |
|--------------------|----------|----------|
| 1) 5 | 2) -4 | 3) -20 |
| 4) -4 | 5) -14 | 6) 48 |
| 7) $-\frac{14}{3}$ | 8) -1 | 9) 13 |
| 10) -10 | 11) 17 | |

Signed Number Mixed Practice:

- | | | |
|----------|-----------|------------|
| 1) 45 | 11) -21 | 21) -24 |
| 2) -14 | 12) 8 | 22) -9 |
| 3) -4 | 13) 40 | 23) -14 |
| 4) 5 | 14) -20 | 24) -1 |
| 5) 1 | 15) -18 | 25) -212 |
| 6) -4 | 16) 1 | 26) 198 |
| 7) 6 | 17) 21 | 27) 55 |
| 8) 8 | 18) -14 | 28) -7 |
| 9) 8 | 19) 0 | 29) 13 |
| 10) -1 | 20) 0 | 30) -30 |