

Operations with Real Numbers**Subtracting Real Numbers**

$$10 - (-4) = 10 + 4 = 14$$

Subtract.

1. $9 - (-32) =$

2. $-99 - (-42) =$

3. $\frac{3}{5} - \frac{7}{8} =$

4. $0 - 21 =$

5. $45 - 301 =$

6. $9.432 + 4.348 - 44.938 =$

7. $-43 - 6 =$

8. $9 - (-2) - 8 - 7 =$

9. $35 - 67 - 85 - 21 - 12 =$

10. $12 - 7 - (-16) - 9 - (-34) =$

11. $18 - (-13) =$

12. $-\frac{2}{5} - \frac{3}{4} - (-\frac{4}{5}) =$

13. $-\frac{4}{7} - \frac{1}{3} - (\frac{2}{3}) =$

14. $3.434 - 7.294 =$

15. $8 - 2.8 =$

16. $8 - (-14) =$

17. $3.9 - 4.9 =$

18. $-7 - (-3) =$

19. $2.19 - 7.8 - 8.31 =$

20. $38 - 39 - (-13) =$

Operations with Real Numbers**Multiplying Real Numbers**

$$(-2)(-3) = 6$$

Multiply.

1. $4 \cdot 9 =$

2. $-4 \cdot 12 =$

3.

4. $(-3)(0) =$

5. $(-3)(-9) =$

6. $6(23) =$

7. $(12)(-3)(4) =$

8. $(-5)(-5)(-5) =$

9. $(5)(2)(-1) =$

10. $(7)(-9)(-12) =$

11.

12. $-7(-7) =$

13. $(54.2)(-3.55) =$

14. $(2.22)(-1.11) =$

15. $(7.44)(3.2)(4.3) =$

16. $(2.4)(-1.4) =$

17. $(-\frac{3}{5})(\frac{3}{5}) =$

18.

19. $-8 \cdot 12 =$

20. $(0)(2)(-213) =$

Operations with Real Numbers**Dividing Real Numbers**

$$9 \div 4.5 = 2$$

Divide.

1. $\frac{49}{7} =$

2. $90 \div 15 =$

3. _____

4. $(-\frac{2}{3}) \div (-18) =$

5. $-42 \div 7 =$

6. $45 \div (-8) =$

7. $-36 \div (4) =$

8. $(-\frac{3}{5}) \div (\frac{3}{5}) =$

9. $-72 \div (9) =$

10. $-21 \div (-9) =$

11. $\frac{102}{17} =$

12. $0 \div (-8) =$

13. $\frac{95}{5} =$

14. $\frac{63}{-9} =$

15. $(-3.4) \div (-9.99) =$

16. $(-56) \div (8.0) =$

17. $(-\frac{4}{6}) \div (36) =$

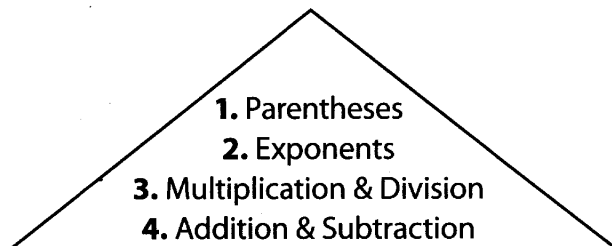
18. $32 \div (-8) =$

19. _____

20. $520 \div (10) =$

Operations with Real Numbers**Order of Operations**

When solving an equation, be sure to follow the **order of operations**.



$$5 + (22 + 2^3) \div (-5 - 1) = 5 + (22 + 8) \div (-5 - 1) = 5 + 30 \div (-6) = 5 + (-5) = 0$$

Solve.

1. $8 - 4 \cdot 5(3 - 2) + 3 =$

2. $12 \div (2 - 7) + 7 =$

3. $(14 - 9) + 4 =$

4. $\frac{3^2 - 5 \cdot 7 - 4^2}{(-4 - 7 - 12) + 8} =$

5. $9(3 \div 3) + 4(-5 \cdot 9) \div 3 =$

6. $3 - (6 \cdot 6) - 3 \cdot 0 =$

7. $36 \div 9 - 8 + 21 \div 3 =$

8. $5(3 - 8) \cdot 3 + 8 - 3 =$

9. $3 \cdot 5 + 9 \cdot 7 =$

10. $\frac{(5 - 9)^2 + 2}{(7 - 8)^2 \cdot 3^2} =$

11. $4^2 + 3^2 - 7^2 =$

12. $\frac{3^2 - 10}{4^2 - 12} =$

13. $8^2 - \frac{26}{(4 + 9)} + 4 =$

14. $\frac{5 \cdot 7 - (3 + 4)}{-2^2 - 2^2 + 3^2} =$

15. $\frac{4 + 2 \cdot 3 + 4 - 3}{2^2 \cdot 3^2 - 3} =$

16. $\frac{3 + 10 - 19 + 32}{3^2 - 1 + 2^2} =$

17. $12 \div [3 + (6 + 3)] =$

18. $3 \cdot (0 - 7) + 8 \div 2^2 =$

Operations with Real Numbers

Subtracting Real Numbers

$$10 - (-4) = 10 + 4 = 14$$

Subtract.

1. $9 - (-32) = 41$
2. $-99 - (-42) = -57$
3. $\frac{3}{5} - \frac{7}{8} = -\frac{11}{40}$
4. $0 - 21 = -21$
5. $45 - 301 = -256$
6. $9.432 + 4.348 - 44.938 = -31.158$
7. $-43 - 6 = -49$
8. $9 - (-2) - 8 - 7 = -4$
9. $35 - 67 - 85 - 21 - 12 = -150$
10. $12 - 7 - (-16) - 9 - (-34) = 46$
11. $18 - (-13) = 31$
12. $-\frac{2}{5} - \frac{3}{4} - (-\frac{4}{5}) = -\frac{7}{20}$
13. $-\frac{4}{7} - \frac{1}{3} - (-\frac{2}{3}) = -1\frac{4}{7}$
14. $3.434 - 7.294 = -3.86$
15. $8 - 2.8 = 5.2$
16. $8 - (-14) = 22$
17. $3.9 - 4.9 = -1$
18. $-7 - (-3) = -4$
19. $2.19 - 7.8 - 8.31 = -13.92$
20. $38 - 39 - (-13) = 12$

Operations with Real Numbers

Dividing Real Numbers

$$9 \div 4.5 = 2$$

Divide.

1. $\frac{49}{7} = 7$
2. $90 \div 15 = 6$
3. $(-12) \div (9.9) = -1.21$
4. $(-\frac{2}{3}) \div (-18) = \frac{1}{27}$
5. $-42 \div 7 = -6$
6. $45 \div (-8) = -5.625$
7. $-36 \div (4) = -9$
8. $(-\frac{3}{5}) \div (\frac{3}{5}) = -1$
9. $-72 \div (9) = -8$
10. $-21 \div (-9) = 2.3$
11. $\frac{102}{17} = 6$
12. $0 \div (-8) = 0$
13. $\frac{95}{5} = 19$
14. $\frac{63}{9} = 7$
15. $(-3.4) \div (-9.99) = 0.340$
16. $(-56) \div (8.0) = -7$
17. $(-\frac{4}{6}) \div (36) = -\frac{1}{54}$
18. $32 \div (-8) = -4$
19. $(-\frac{4}{5}) \div (-1.6) = 0.5$
20. $520 \div (10) = 52$

Operations with Real Numbers

Multiplying Real Numbers

$$(-2)(-3) = 6$$

Multiply.

1. $4 \cdot 9 = 36$
2. $-4 \cdot 12 = -48$
3. $(-\frac{5}{9})(8.8) = -4.8$
4. $(-3)(0) = 0$
5. $(-3)(-9) = 27$
6. $6(23) = 138$
7. $(12)(-3)(4) = -144$
8. $(-5)(-5)(-5) = -125$
9. $(5)(2)(-1) = -10$
10. $(7)(-9)(-12) = 756$
11. $(-\frac{2}{3})(-1.6) = 1.06$
12. $-7(-7) = 49$
13. $(54.2)(-3.55) = -192.41$
14. $(2.22)(-1.11) = -2.4642$
15. $(7.44)(3.2)(4.3) = 102.3744$
16. $(2.4)(-1.4) = -3.36$
17. $(-\frac{3}{5})(\frac{3}{5}) = -\frac{9}{25}$
18. $(-\frac{4}{5})(2.2) = -1.76$
19. $-8 \cdot 12 = -96$
20. $(0)(2)(-213) = 0$

Operations with Real Numbers

Order of Operations

When solving an equation, be sure to follow the **order of operations**.

1. Parentheses
2. Exponents
3. Multiplication & Division
4. Addition & Subtraction

$$5 + (22 + 2^3) \div (-5 - 1) = 5 + (22 + 8) \div (-5 - 1) = 5 + 30 \div (-6) = 5 + (-5) = 0$$

Solve.

1. $8 - 4 \cdot 5(3 - 2) + 3 = -9$
2. $12 \div (2 - 7) + 7 = 4.6$
3. $(14 - 9) + 4 = 9$
4. $\frac{3^2 - 5 \cdot 7 - 4^2}{(-4 - 7 - 12) + 8} = 2\frac{4}{5}$
5. $9(3 \div 3) + 4(-5 \cdot 9) \div 3 = -51$
6. $3 - (6 \cdot 6) - 3 \cdot 0 = -33$
7. $36 \div 9 - 8 + 21 \div 3 = 3$
8. $5(3 - 8) \cdot 3 + 8 - 3 = -70$
9. $3 \cdot 5 + 9 \cdot 7 = 78$
10. $\frac{(5 - 9)^2 + 2}{(7 - 8)^2 \cdot 3^2} = 2$
11. $4^2 + 3^2 - 7^2 = -24$
12. $\frac{3^2 - 10}{4^2 - 12} = -\frac{1}{4}$
13. $8^2 - \frac{26}{(4 + 9)} + 4 = 66$
14. $\frac{5 \cdot 7 - (3 + 4)}{-2^2 - 2^2 + 3^2} = 28$
15. $\frac{4 + 2 \cdot 3 + 4 - 3}{2^2 \cdot 3^2 - 3} = \frac{1}{3}$
16. $\frac{3 + 10 - 19 + 32}{3^2 - 1 + 2^2} = 2\frac{1}{6}$
17. $12 \div [3 + (6 + 3)] = 1$
18. $3 \cdot (0 - 7) + 8 \div 2^2 = -19$