

Algebra I Summer Worksheet 1 (ALL without a calculator).

Rev 6/13/17

Simplify. Leave all answers as Improper Fractions. All work must be shown. Do your work **neatly** on filler paper as your teacher may ask to collect your paper.

A. Add or subtract. Simplify answers if possible.

1. $\frac{3}{8} + \frac{1}{6}$

2. $3\frac{1}{2} + 4\frac{2}{3} + 7\frac{1}{4}$

3. $\frac{5}{6} - \frac{2}{5}$

4. $7 - \frac{5}{8}$

5. $1\frac{7}{8} - \frac{3}{4}$

B. Multiply. Simplify answers if possible.

6. $\left(\frac{5}{8}\right)(18)$

7. $\left(2\frac{3}{10}\right)\left(3\frac{1}{3}\right)$

C. Divide. Simplify answers if possible.

8. $\frac{3}{4} \div 2$

9. $3\frac{1}{3} \div 1\frac{1}{4}$

D. Add.

10. $14 + 3.75 + 8.6$

11. $1 + 0.02 + 0.2$

E. Subtract.

12. $7 - 4.38$

13. $8.9 - 0.76$

F. Multiply.

14. $(0.75)(0.003)$

15. $(0.0004)(57)$

G. Divide. Round answers to the nearest hundredth, if necessary.

16. $396.7 \div 0.08$

17. $0.44 \div 1.1$

18. $\frac{5.82}{0.6}$

19. $0.91 \div 8$

H. Add.

20. $-4 + 2$

21. $10 + (-2)$

22. $-11 + (6 + 5)$

I. Solve.

23. $9 - 5$

24. $3 - (-7)$

25. $-4 - (-3)$

26. $-2 - 10$

27. $(-4)(2)$

28. $(-8)(-8)$

29. $-4 \div 2$

30. $-12 \div -4$

31. $x + 4 = 11$

32. $n - 7 = 19$

33. $2y = 16$

34. $\frac{r}{6} = 4$

35. $3y - 3 = 15$

36. $6(x + 3) = 24$

J. Solve

37. 50% of 26 is what number?

38. 9 is 25% of what number?

39. Joyce correctly answered 15 out of 20 questions on her Italian test. What percent did she answer correctly?

40. Find the area of a rectangle with length of 10 in. and width of 6 in.

Algebra I Summer Worksheet 2 (ALL without a calculator).

Rev 6/13/17

Simplify. Leave all answers as Improper Fractions. All work must be shown. Do your work **neatly** on filler paper as your teacher may ask to collect your paper.

A. Add or subtract. Simplify answers if possible.

1. $\frac{4}{7} + \frac{5}{3}$

2. $3\frac{1}{3} + 4\frac{2}{4} + 7\frac{1}{6}$

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

4. $9 - \frac{5}{8}$

5. $1\frac{7}{15} - \frac{3}{5}$

B. Multiply. Simplify answers if possible.

6. $\left(\frac{3}{8}\right)(28)$

7. $\left(3\frac{3}{11}\right)\left(2\frac{1}{3}\right)$

C. Divide. Simplify answers if possible.

8. $\frac{3}{4} \div 6$

9. $3\frac{1}{3} \div 1\frac{3}{19}$

D. Add.

10. $9 + 2.77 + 8.6$

11. $6 + 1.04 + 0.2$

E. Subtract.

12. $13 - 2.38$

13. $8.9 - 1.34$

F. Multiply.

14. $(0.75)(0.002)$

15. $(0.0004)(29)$

G. Divide. Round answers to the nearest hundredth, if necessary.

16. $3.967 \div 0.06$

17. $0.84 \div 2.1$

18. $\frac{6.43}{0.6}$

19. $3.91 \div 8$

H. Add.

20. $-7 + 3$

21. $21 + (-5)$

22. $-15 + (6 + 9)$

I. Solve.

23. $9 - 7$

24. $8 - (-7)$

25. $-8 - (-3)$

26. $-2 - 1$

27. $(-8)(9)$

28. $(-6)(-7)$

29. $-12 \div 2$

30. $-12 \div -3$

31. $x + 3 = 17$

32. $n - 9 = 17$

33. $3y = 21$

34. $\frac{r}{4} = 4$

35. $7y - 6 = 15$

36. $3(x - 3) = 24$

J. Solve.

37. 6 is what percent of 120?

38. 3 is 12% of what number?

39. Lisa's dog is 11 lb. heavier than Marcia's dog. Let m represent the weight of Marcia's dog. What is the weight of Lisa's dog?

40. Robin earned twice as much money this week as she did last week. Let d represent the amount of money she earned last week. How much did she earn this week?