

Summer Assignment for Students Going Into 6th Grade Pre-Algebra

Directions:

- Complete this packet one topic at a time following the directions below:
 - Complete all problems in the section, showing all of your work. If there is no work to show, write a sentence or two explaining your answer. **You may not use a calculator on this assignment. Only questions with work and/or explanations will be counted as complete.**
 - Write your final answer/solution on the chart on the next page.
 - Check your answers using the answer key on the last page of this packet.
 - If a question is wrong, that's okay! Check your work for any mistakes and try again :).
 - If multiple questions are wrong or you don't understand how to arrive at the correct answer, it's probably time to get extra help (see below).
- If you need extra help you should:
 - Use Khan Academy as a resource to refresh your understanding of the topics. There are mini-units on Khan Academy with practice problems that might be helpful.
 - Reach out to a friend that might be able to help explain a concept to you - remember, getting help is ok, but getting answers is not - we want you to understand the material in this assignment as you will be using it moving forward this year and for the years to come!!
- Bring this packet with you on the first day of school.
 - While we will be looking at the chart to see trends across the class, your grade will be based on **completion** not correct answers.
 - Please draw a ☆ next to any topic you would like your teacher to review with you or the whole class.

Name: _____

Solutions/Reflection Chart

Topic	Question	My Answer	Correct?	Topics
Multi-Digit Subtraction	1			Subtracting Multi-Digit Numbers
	2			
Multi-Digit Multiplication	3			Multiplying Multi-Digit Numbers
	4			
Division	5			Division by 2-Digits
	6			
	7			
Place Value	8			Finding Place Value
	9			Place Value Tables
	10			Comparing Place Values
	11			Understanding Place Value
	12			Comparing Whole Number Place Values
	13			Regrouping Whole Number Place Values
	14			
	15			
Decimal Arithmetic	16			Adding Decimals
	17			Subtracting Decimals
	18			Multiplying Decimals
	19			Dividing Decimals
	20			
	21			
	22			
	23			
	24			
	25			

Fraction Arithmetic	26			Adding and Subtracting Fractions
	27			
	28			Multiplying Fractions
	29			
	30			Dividing Fractions
	31			
Arithmetic with Mixed Numbers	32			Adding and Subtracting Mixed Numbers
	33			
	34			Multiplying Mixed Numbers
	35			
Simplifying Fractions	36			Equivalent Fractions
	37			
	38			
Estimation	39			Rounding
	40			
	41			
	42			
Word Problems	43			
	44			
Solving One-Step Equations	45			One-Step Equations
	46			
	47			
	48			
	49			

REMINDER: Please draw a ☆ next to any topic you would like your teacher to review with you or the whole class upon returning to school in the fall

Topic 1: Multiplying multi-digit values

1. 725×39

2. 102
 $\times 317$

Topic 2: Multi-digit Subtraction

3. $36,925$
 $- 3,180$

4. $185,407$
 $- 77,637$

Topic 3: Division

5. $5 \div 2$

6. $2 \div 5$

7. $19 \overline{)247}$

Topic 4: Place Value

Round to the nearest hundred

8. 429

9. $3,274$

Round to the nearest thousand

10. $7,693$

11. $41,380$

Round to the nearest tenth

12. 5.84

13. 13.192

Round to the nearest hundredth

14. 84.307

15. 108.5163

Topic 5: Decimal Arithmetic

16. $16.5 + 3.02$

17. $5.8 + 1.52$

18. $8.3 - 2.7$

19. $20.7 - 8.2$

20. $417.03 - 96.2$

21. 4.2×3

22. 5.1×4.2

23. $4.2 \div 0.7$

24. $6.39 \div 9$

25. $0.2 \div 0.3$

Topic 6: Fraction Arithmetic (Simplify when possible)

26. $\frac{3}{7} + \frac{2}{7}$

27. $\frac{7}{10} - \frac{3}{10}$

28. $\frac{5}{12} + \frac{1}{6}$

29. $\frac{7}{8} - \frac{1}{4}$

30. $\frac{5}{14} + \frac{6}{21}$

31. $\frac{7}{15} - \frac{1}{25}$

Topic 7: Arithmetic with Mixed Numbers (Leave answers as mixed numbers when possible)

32. $3\frac{1}{9} + 1\frac{5}{9}$

33. $6\frac{8}{11} - 4\frac{3}{11}$

34. $1\frac{2}{5} + 3\frac{9}{10}$

35. $5\frac{1}{3} - 3\frac{2}{3}$

Topic 8: Simplifying Fractions

36. $\frac{8}{24}$

37. $\frac{9}{60}$

38. $\frac{100}{24}$

Topic 9: Estimation (answers may vary)

Estimate each answer

39. $21 + 48 + 9$

40. 39×4

42. $\$11.15 + \$18.75 + \$41.35$

42. $47 \div 8$

Topic 10: Word Problems

43. Your club is making gift baskets to sell to raise money for a trip. The club has 350 wrapped soaps to put into the gift baskets. If there will be 4 soaps in each basket, how many baskets can the club make?

44. Sam had \$50 to shop for clothes. He bought 3 pairs of socks for \$2 each, a shirt for \$14.50 and a pair of pants for \$23.00. How much money did Sam have left over?

Topic 11: Solving One-step Equations

45. $2x = 6$

46. $x + 7 = 9$

47. $x - 3 = 4$

48. $x \div 4 = 2$

49. $\frac{x}{4} = 6$

Answer Key:

1. 28,275	18. 5.6	35. $1\frac{2}{3}$
2. 32,334	19. 12.5	36. $\frac{1}{3}$
3. 33,745	20. 320.83	37. $\frac{3}{20}$
4. 107,770	21. 12.6	38. $4\frac{1}{6}$ or $\frac{25}{6}$
5. 2.5 or $\frac{5}{2}$ or $2\frac{1}{2}$	22. 21.42	39. 80
6. 0.4 or $\frac{2}{5}$	23. 6	40. 160
7. 13	24. 0.71	41. \$70
8. 400	25. $0.\overline{6}$	42. 6
9. 3,300	26. $\frac{5}{7}$	43. 87
10. 8,000	27. $\frac{2}{5}$	44. \$6.50
11. 41,000	28. $\frac{7}{12}$	45. 3
12. 5.8	29. $\frac{5}{8}$	46. 2
13. 13.2	30. $\frac{9}{14}$	47. 7
14. 18.31	31. $\frac{32}{75}$	48. 8
15. 108.52	32. $4\frac{2}{3}$	49. 24
16. 19.52	33. $2\frac{5}{11}$	
17. 7.32	34. $5\frac{3}{10}$	