Pre-Algebra Summer Assignment

There are ten worksheets that need to be completed before the first day of class. Each worksheet covers topics that you need to be familiar with before the beginning of Pre-Algebra.

For worksheets pages 4 through 10, you **must show your work.** If there is not enough room on the worksheet to write out your work, please use a piece of notebook paper. Put the page number of the worksheet and the number of the problem on the notebook paper to make it clear.

I will collect the worksheets and the notebook paper on the first day of class.

If you are having trouble with any of the worksheets you can do a search to find instruction or review of how to solve. For example, if you are having trouble with page 4 (Adding mixed numbers and fractions) you could search "how to add mixed number and fractions with unlike denominators" and you will find youtube video explanations.

I have included the answers so that you can check your work. This is why you MUST show your work to get credit. I have given you the answers, so just giving me the answers makes no sense.

The first three worksheets don't really require work, so just answers are acceptable for those worksheets.

I look forward to seeing you in class in September! Enjoy your summer!

Rounding Decimals Worksheet A
Item 3078-A

(1)

Name _____

Rounding Decimals

Round to the nearest whole number.

5.636

Since the digit to the right is 5 or greater, round up to 6.

5.636 rounded to the nearest whole number is **6**.

Round to the nearest tenth.

5.636

Since the next digit to the right is less than 5, round down to 5.6.

5.636 rounded to the nearest tenth is **5.6**.

Round to the nearest hundredth.

5.636

Since the next digit to the right is 5 or greater, round up to 5.64.

5.636 rounded to the nearest hundredth is **5.64**.

---

1) What is 8.525 rounded to the nearest whole number? _____

2) What is 8.525 rounded to the nearest tenth? _____

3) What is 8.525 rounded to the nearest hundredth? _____

4) What is 3.341 rounded to the nearest whole number? _____

5) What is 3.341 rounded to the nearest tenth? _____

6) What is 3.341 rounded to the nearest hundredth? _____

Circle the correct answer.

7) 5.385 rounded to the nearest tenth is 5.3 5. 4 5.5

8) 4.62 rounded to the nearest whole number is 4.7 4 5

9) 6.652 rounded to the nearest tenth is 6.5 6.6 6.7

10) 4.106 rounded to the nearest hundredth is 4.10 4.11 4.12

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Rounding Decimals Worksheet B
Item 3078-B

(2)

Name _____

Rounding Decimals

Round the nearest whole number.

1) 1.27 _____
2) 5.9 _____
3) 3.156 _____
4) 31.7 _____
5) 19.82 _____
6) 15.702 _____
7) 4.109 _____
8) 22.83 _____
9) 8.011 _____
10) 0.506 _____
11) 21.709 _____
12) 6.341 _____
13) 19.51 _____
14) 11.362 _____
15) 10.94 _____
16) 2.251 _____
17) 5.5 _____
18) 53.3 _____

Round the nearest tenth.

19) 1.27 _____
20) 9.538 _____
21) 6.141 _____
22) 28.127 _____
23) 19.82 _____
24) 15.702 _____
25) 4.408 _____
26) 12.823 _____
27) 8.011 _____
28) 4.506 _____
29) 9.634 _____
30) 16.230 _____
31) 11.509 _____
32) 0.222 _____
33) 7.094 _____
34) 2.609 _____
35) 35.515 _____
36) 17.091 _____

Round the nearest hundredth.

37) 7.1091 _____
38) 6.941 _____
39) 15.039 _____
40) 5.285 _____
41) 3.362 _____
42) 16.336 _____
43) 3.655 _____
44) 12.107 _____
45) 9.127 _____
46) 9.789 _____
47) 3.215 _____
48) 4.218 _____
49) 2.073 _____
50) 2.3845 _____
51) 11.2773 _____
52) 0.007 _____
53) 7.005 _____
54) 33.333 _____

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Name _____ (3) Date _____

Rounding Numbers By Place Value - Independent Practice Worksheet

Complete all the problems.

1. Round 6,678 to the nearest hundreds place.

2. Round the 7,451 to the nearest tens, hundreds, and thousands place.

3. Estimate the product of 42 and 29.

4. Round 1,432 to the nearest hundreds place.

5. Round the 2,276 to the nearest tens, hundreds, and thousands place.

6. Estimate the product of 67 and 82.

7. Round 9,623 to the nearest hundreds place.

8. Round the 8,587 to the nearest tens, hundreds, and thousands place

9. Estimate the product of 52 and 24.

10. Round 4,325 to the nearest hundreds place.

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(47)

Get common denominators first.

Adding mixed numbers and fractions (unlike denominators)

Grade 5 Fractions Worksheet

Find the sum.

1. $5\frac{2}{9} + \frac{6}{7} =$ _____

2. $7\frac{2}{6} + \frac{1}{12} =$ _____

3. $1\frac{1}{10} + \frac{7}{8} =$ _____

4. $5\frac{4}{7} + \frac{1}{9} =$ _____

5. $2\frac{1}{2} + \frac{1}{5} =$ _____

6. $1\frac{8}{11} + \frac{2}{8} =$ _____

7. $10\frac{6}{10} + \frac{2}{4} =$ _____

8. $2\frac{1}{2} + \frac{5}{6} =$ _____

9. $6\frac{6}{7} + \frac{3}{9} =$ _____

10. $10\frac{2}{6} + \frac{5}{12} =$ _____

11. $1\frac{4}{11} + \frac{2}{5} =$ _____

12. $7\frac{8}{11} + \frac{3}{5} =$ _____

13. $7\frac{3}{10} + \frac{5}{12} =$ _____

14. $7\frac{2}{6} + \frac{1}{4} =$ _____

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K5 Learning

Get common denominators first.

Adding mixed numbers (unlike denominators)

Grade 5 Fractions Worksheet

Find the sum.

1. $3\frac{9}{12} + 6\frac{1}{2} =$ _____

2. $7\frac{7}{10} + 3\frac{5}{6} =$ _____

3. $5\frac{6}{7} + 6\frac{1}{12} =$ _____

4. $10\frac{1}{5} + 7\frac{2}{4} =$ _____

5. $7\frac{2}{12} + 2\frac{1}{3} =$ _____

6. $10\frac{2}{4} + 7\frac{1}{5} =$ _____

7. $3\frac{1}{10} + 7\frac{3}{8} =$ _____

8. $5\frac{5}{6} + 2\frac{2}{4} =$ _____

9. $10\frac{1}{2} + 6\frac{6}{10} =$ _____

10. $2\frac{4}{7} + 6\frac{3}{5} =$ _____

11. $2\frac{2}{6} + 2\frac{3}{9} =$ _____

12. $3\frac{3}{4} + 9\frac{1}{2} =$ _____

13. $3\frac{1}{3} + 2\frac{1}{6} =$ _____

14. $2\frac{9}{10} + 1\frac{6}{12} =$ _____

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(6)

Fraction Subtraction

Common Denominators - Reducible Result - With Regrouping

Name: _____ **Date:** _____

Subtract.

(1) $2\frac{3}{8} - \frac{7}{8}$

(2) $2\frac{5}{8} - \frac{7}{8}$

(3) $8\frac{7}{10} - \frac{9}{10}$

(4) $7\frac{8}{15} - \frac{14}{15}$

(5) $5\frac{2}{9} - \frac{8}{9}$

(6) $3\frac{2}{15} - \frac{14}{15}$

(7) $2\frac{4}{15} - \frac{13}{15}$

(8) $8\frac{4}{9} - \frac{7}{9}$

(9) $4\frac{5}{12} - \frac{11}{12}$

(10) $6\frac{9}{14} - \frac{11}{14}$

(11) $9\frac{5}{14} - \frac{13}{14}$

(12) $1\frac{7}{12} - \frac{11}{12}$

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Get common denominators first.

Fraction Subtraction

Multiples for Denominators - Reducible Result - No Regrouping

Name: _____ **Date:** _____

Subtract.

(1) $9\frac{11}{20} - \frac{1}{4}$

(2) $8\frac{3}{4} - \frac{3}{20}$

(3) $5\frac{19}{30} - \frac{1}{6}$

(4) $1\frac{9}{20} - \frac{1}{4}$

(5) $5\frac{13}{20} - \frac{1}{4}$

(6) $1\frac{5}{6} - \frac{1}{12}$

(7) $7\frac{1}{4} - \frac{1}{12}$

(8) $1\frac{7}{18} - \frac{1}{6}$

(9) $9\frac{2}{3} - \frac{1}{6}$

(10) $6\frac{1}{2} - \frac{1}{6}$

(11) $6\frac{1}{2} - \frac{3}{10}$

(12) $7\frac{11}{24} - \frac{1}{8}$

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Change to improper fractions first. (8)

Fraction Multiplication

One Mixed Fraction - May Cross-Reduce

Name: _____ **Date:** _____

Multiply.

(1) $\frac{1}{6} \times 2\frac{5}{6} =$

(2) $\frac{9}{14} \times 3\frac{1}{2} =$

(3) $1\frac{1}{3} \times \frac{11}{13} =$

(4) $1\frac{10}{11} \times \frac{2}{3} =$

(5) $\frac{3}{8} \times 2\frac{1}{4} =$

(6) $\frac{2}{3} \times 4\frac{5}{12} =$

(7) $1\frac{7}{10} \times \frac{2}{3} =$

(8) $\frac{1}{3} \times 4\frac{3}{5} =$

(9) $\frac{2}{3} \times 1\frac{1}{4} =$

(10) $2\frac{5}{6} \times \frac{3}{5} =$

(11) $4\frac{1}{4} \times \frac{1}{3} =$

(12) $\frac{3}{4} \times 3\frac{3}{10} =$

(13) $1\frac{2}{3} \times \frac{1}{2} =$

(14) $2\frac{8}{15} \times \frac{1}{2} =$

(15) $\frac{3}{10} \times 1\frac{1}{2} =$

(16) $\frac{6}{7} \times 2\frac{4}{5} =$

(17) $1\frac{2}{3} \times \frac{1}{9} =$

(18) $\frac{1}{3} \times 4\frac{1}{2} =$

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Change to improper fractions first. (9)

Fraction Multiplication

Both Mixed Fractions - May Cross-Reduce

Name: _____ Date: _____

Multiply.

(1) $2\frac{6}{7} \times 2\frac{3}{4} =$

(2) $3\frac{1}{6} \times 2\frac{4}{5} =$

(3) $4\frac{9}{10} \times 3\frac{3}{4} =$

(4) $4\frac{1}{3} \times 1\frac{2}{3} =$

(5) $3\frac{1}{2} \times 2\frac{2}{3} =$

(6) $4\frac{3}{5} \times 2\frac{3}{4} =$

(7) $1\frac{5}{8} \times 3\frac{1}{4} =$

(8) $4\frac{1}{2} \times 4\frac{13}{14} =$

(9) $1\frac{1}{7} \times 2\frac{1}{4} =$

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Change to improper fractions first. (10)

Fraction Division

Both Mixed Fractions - May Cross-Reduce

Name: _____ Date: _____

Divide.

(1) $1\frac{7}{8} \div 4\frac{4}{5} =$

(2) $4\frac{1}{5} \div 2\frac{3}{7} =$

(3) $1\frac{1}{3} \div 3\frac{6}{7} =$

(4) $3\frac{1}{4} \div 2\frac{1}{7} =$

(5) $4\frac{3}{4} \div 2\frac{5}{8} =$

(6) $3\frac{2}{3} \div 2\frac{1}{2} =$

(7) $4\frac{1}{3} \div 3\frac{1}{10} =$

(8) $4\frac{2}{3} \div 1\frac{5}{11} =$

(9) $2\frac{1}{3} \div 2\frac{9}{10} =$

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Pre-Algebra Summer Homework Answers

Page 1

1) 9
2) 8.5
3) 8.53
4) 3
5) 3.3
6) 3.34
7) 5.4
8) 5
9) 6.7
10) 4.11

Page 2

1) 1
2) 6
3) 3
4) 32
5) 20
6) 16
7) 4
8) 23
9) 8
10) 1
11) 22
12) 5
13) 20
14) 11
15) 11
16) 2
17) 6
18) 53

19) 1.3
20) 9.5
21) 6.1
22) 28.1
23) 19.8
24) 15.7
25) 4.4
26) 12.8
27) 8.0
28) 4.5
29) 9.6
30) 16.2
31) 11.5
32) .2
33) 7.1
34) 2.6
35) 35.5
36) 17.1

37) 7.11
38) 6.94
39) 15.04
40) 5.29
41) 3.36
42) 16.34
43) 3.66
44) 12.11
45) 9.13
46) 9.79
47) 3.22
48) 4.22
49) 2.07
50) 2.38
51) 11.28
52) .01
53) 7.01
54) 33.33

Page 3

1) 6,70 2) tens: 7,450 hundreds: 7,500 thousands: 7,000 3) 1200

4) 1,400 5) tens: 2,280 hundreds: 2,300 thousands: 2,000 6) 5600 7) 9,600

8) tens: 8,590 hundreds: 8,600 thousands: 9,000 9) 1000 10) 4,300

Page 4

1) 6 5/63 2) 7 5/12 3) 1 39/40 4) 5 43/63 5) 2 7/10 6) 1 43/44

7) 11 1/10 8) 3 1/3 9) 7 4/21 10) 10 ¾ 11) 1 42/55

12) 8 18/55 13) 7 43/60 14) 7 7/12

Page 5

1) 10 ¼ 2) 11 8/15 3) 11 79/84 4) 17 7/10 5) 9 ½ 6) 17 7/10

7) 10 19/40 8) 8 1/3 9) 17 1/10 10) 9 6/35 11) 4 2/3

12) 13 ¼ 13) 5 ½ 14) 4 2/5

Page 6

1) 1 ½	2) 1 ¾	3) 7 4/5	4) 6 3/5	5) 4 1/3	6) 2 1/5
7) 1 2/5	8) 7 2/3	9) 3 ½	10) 5 6/7	11) 8 3/7	12) 2/3

Page 7

1) 9 3/10	2) 8 3/5	3) 5 7/15	4) 1 1/5	5) 5 2/5	6) 1 ¾
7) 7 1/6	8) 1 2/9	9) 9 ½	10) 6 1/3	11) 6 1/5	12) 7 1/3

Page 8

1) 17/36	2) 2 ¼	3) 1 5/39	4) 1 3/11	5) 27/32	6) 2 17/18
7) 1 2/15	8) 1 8/15	9) 5/6	10) 1 7/10	11) 1 5/12	12) 2 19/40
13) 5/6	14) 1 4/15	15) 9/20	16) 2 2/5	17) 5/27	18) 1 ½

Page 9

1) 7 6/7 2) 8 13/15 3) 18 3/8 4) 7 2/9 5) 9 1/3 6) 12 13/20

7) 5 9/32 8) 22 5/28 9) 2 4/7

Page 10

1) 25/64 2) 1 62/85 3) 28/81 4) 1 31/60 5) 1 17/21

6) 1 7/15 7) 1 37/93 8) 3 5/24 9) 70/87