Rising 7th Grade Math Summer Review Packet

Name_____

Date_____

Rising 7th Grade Math Summer Review

Dear Student,

Included in this packet, is your summer math review. Work thoughtfully throughout the summer to complete the problems, showing your work and labeling your answers. Attach any extra work pages. These problems are review and reinforcement of the skills worked on this past school year. Bring this packet with you to turn in to your math teacher for a grade the first week of school.

If you have any questions, please email me at dgussoff@theswiftschool.org

Have a wonderful and safe summer,

Ms. Gussoff

Adding/Subtracting 4-Digit Numbers (A)

Name: _____ Date: _____

Calculate each sum or difference.

8673 − 1448	9759 − 9133	3225 − 2649	8646 + 9848	5574 − 4984
8062 − 1538	7030 + 8803	8105 + 6802	3893 + 4439	5337 − 2864
4598 + 3634	6987 − 5802	5916 − 1806	3204 − 2652	2897 + 5307
8028 − 3275	6911 + 6251	6074 + 2922	3729 − 2402	4245 − 1949
6995 − 6515	8464 + 8067	5751 + 8665	4376 − 1767	8057 + 4061

*Don't Forget To Add Your "0!"

3-Digit by 2-Digit Multiplication (B)

Name: _____ Date: _____ Score: ____ /20

Calculate each product.

Ex

$$\begin{array}{r} {\scriptstyle 4\ \ 2\ 1} \\ 682 \\ \times\ 53 \\ \hline 2046 \\ +\ 34100 \\ \hline 36,146 \end{array}$$

$\begin{array}{r} 186 \\ \times\ 44 \end{array}$	$\begin{array}{r} 681 \\ \times\ 38 \end{array}$	$\begin{array}{r} 206 \\ \times\ 84 \end{array}$	$\begin{array}{r} 430 \\ \times\ 59 \end{array}$
$\begin{array}{r} 473 \\ \times\ 36 \end{array}$	$\begin{array}{r} 421 \\ \times\ 40 \end{array}$	$\begin{array}{r} 952 \\ \times\ 56 \end{array}$	$\begin{array}{r} 206 \\ \times\ 26 \end{array}$	$\begin{array}{r} 975 \\ \times\ 43 \end{array}$
$\begin{array}{r} 862 \\ \times\ 59 \end{array}$	$\begin{array}{r} 342 \\ \times\ 12 \end{array}$	$\begin{array}{r} 112 \\ \times\ 20 \end{array}$	$\begin{array}{r} 884 \\ \times\ 16 \end{array}$	$\begin{array}{r} 384 \\ \times\ 20 \end{array}$
$\begin{array}{r} 960 \\ \times\ 23 \end{array}$	$\begin{array}{r} 478 \\ \times\ 73 \end{array}$	$\begin{array}{r} 299 \\ \times\ 86 \end{array}$	$\begin{array}{r} 357 \\ \times\ 21 \end{array}$	$\begin{array}{r} 685 \\ \times\ 25 \end{array}$

3-Digit by 2-Digit Multiplication (A)

Name: _____ Date: _____ Score: ____ /20

Calculate each product.

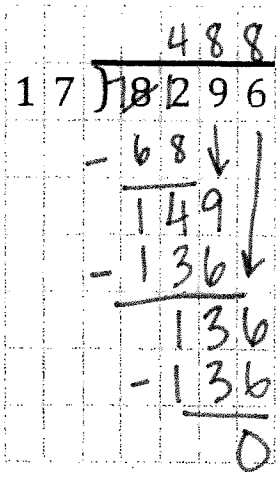
435 × 72	325 × 54	804 × 79	908 × 47	905 × 80
394 × 71	977 × 45	256 × 32	989 × 55	284 × 81
183 × 38	592 × 78	501 × 36	428 × 57	640 × 54
788 × 49	205 × 15	422 × 97	169 × 48	891 × 87

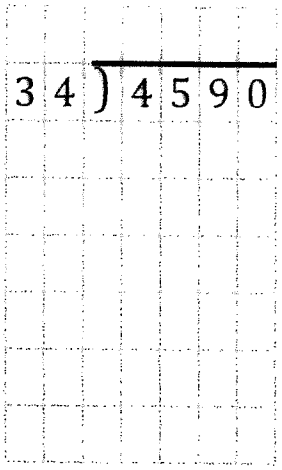
Long Division with a Grid (A)

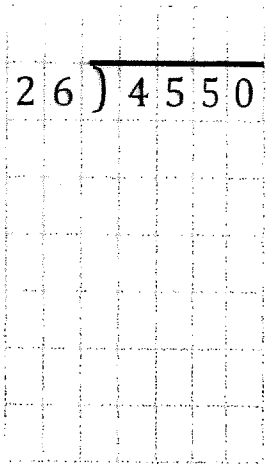
Name: _____ ✱DMSB✱ Date: _____

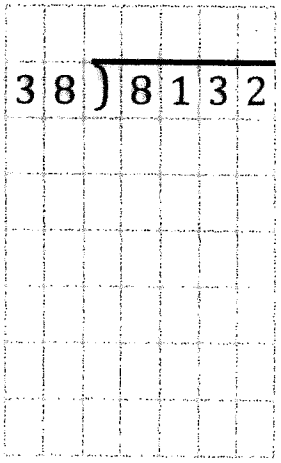
Calculate each quotient.

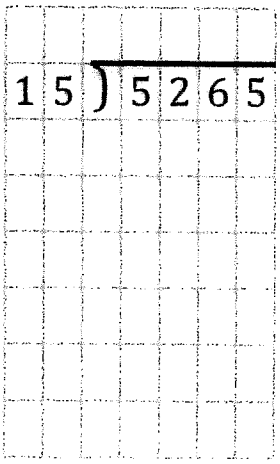
No Remainders

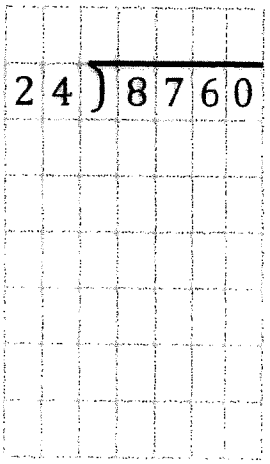


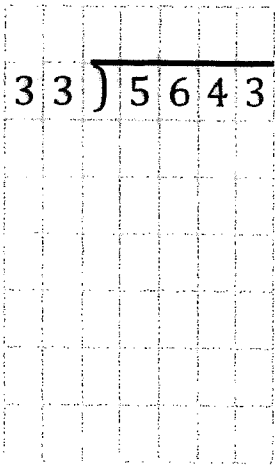


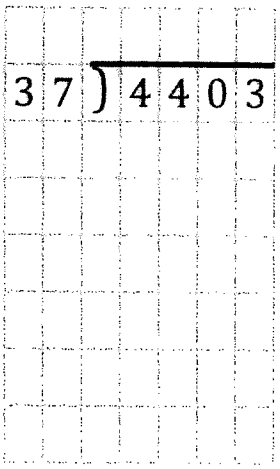


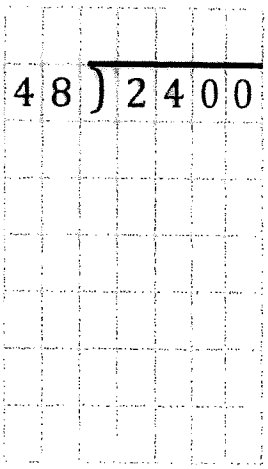












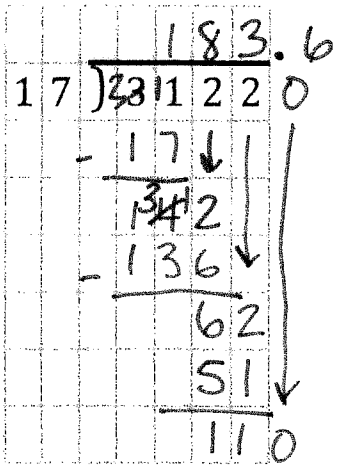
Long Division with a Grid (A)

Name: _____ * DMSB * Date: _____

Calculate each quotient.

one decimal place

* Turn remainder to a decimal *



42)6386

46)8374

27)3551

45)7285

47)5511

38)6882

34)4871

48)3884

Simplifying Proper Fractions (A)

Name: _____ Date: _____

Simplify each fraction to its lowest terms

1. $\frac{14}{21} = \frac{2}{3}$ (÷7, ÷7)
2. $\frac{7}{287} =$
3. $\frac{76}{384} =$
4. $\frac{4}{44} =$
5. $\frac{203}{350} =$
6. $\frac{10}{55} =$
7. $\frac{30}{770} =$
8. $\frac{99}{225} =$
9. $\frac{5}{30} =$
10. $\frac{40}{44} =$
11. $\frac{312}{468} =$
12. $\frac{44}{104} =$
13. $\frac{100}{450} =$
14. $\frac{20}{25} =$
15. $\frac{12}{18} =$
16. $\frac{40}{44} =$
17. $\frac{98}{148} =$
18. $\frac{155}{225} =$
19. $\frac{830}{850} =$
20. $\frac{12}{114} =$
21. $\frac{10}{12} =$
22. $\frac{8}{72} =$
23. $\frac{20}{290} =$
24. $\frac{75}{230} =$
25. $\frac{18}{33} =$
26. $\frac{6}{82} =$
27. $\frac{80}{190} =$
28. $\frac{24}{140} =$
29. $\frac{270}{1000} =$
30. $\frac{102}{276} =$
31. $\frac{9}{108} =$
32. $\frac{7}{42} =$
33. $\frac{252}{369} =$
34. $\frac{260}{970} =$
35. $\frac{100}{360} =$
36. $\frac{9}{108} =$
37. $\frac{8}{48} =$
38. $\frac{56}{80} =$
39. $\frac{60}{134} =$
40. $\frac{2}{12} =$

Reducing Fractions (A)

Instructions: Reduce each fraction to its lowest terms.

$\frac{2}{4} =$	$\frac{35}{40} =$	$\frac{10}{16} =$	$\frac{8}{36} =$
$\frac{18}{20} =$	$\frac{4}{36} =$	$\frac{6}{9} =$	$\frac{2}{10} =$
$\frac{3}{30} =$	$\frac{44}{48} =$	$\frac{5}{15} =$	$\frac{10}{35} =$
$\frac{10}{45} =$	$\frac{6}{14} =$	$\frac{28}{32} =$	$\frac{20}{24} =$
$\frac{5}{15} =$	$\frac{4}{32} =$	$\frac{30}{35} =$	$\frac{3}{6} =$
$\frac{14}{24} =$	$\frac{18}{20} =$	$\frac{14}{18} =$	$\frac{5}{35} =$
$\frac{4}{40} =$	$\frac{35}{50} =$	$\frac{2}{18} =$	$\frac{2}{4} =$
$\frac{2}{6} =$	$\frac{2}{14} =$	$\frac{28}{40} =$	$\frac{4}{28} =$
$\frac{45}{50} =$	$\frac{12}{28} =$	$\frac{12}{40} =$	$\frac{25}{60} =$

Multiplying Fractions (A)

Name: _____ Date: _____ Score: ____ /20

Multiply.

Ex. $\frac{1}{5} \times \frac{4}{5} = \frac{4}{25}$

1. $\frac{1}{3} \times \frac{1}{3} =$
2. $\frac{1}{7} \times \frac{5}{6} =$
3. $\frac{1}{3} \times \frac{1}{9} =$
4. $\frac{4}{5} \times \frac{3}{5} =$
5. $\frac{5}{9} \times \frac{2}{7} =$
6. $\frac{7}{9} \times \frac{5}{9} =$
7. $\frac{3}{5} \times \frac{1}{2} =$
8. $\frac{3}{7} \times \frac{2}{5} =$
9. $\frac{3}{4} \times \frac{1}{2} =$
10. $\frac{7}{8} \times \frac{7}{8} =$
11. $\frac{4}{7} \times \frac{5}{7} =$
12. $\frac{4}{9} \times \frac{2}{9} =$
13. $\frac{1}{7} \times \frac{1}{2} =$
14. $\frac{2}{9} \times \frac{8}{9} =$
15. $\frac{5}{8} \times \frac{3}{4} =$
16. $\frac{1}{3} \times \frac{7}{9} =$
17. $\frac{5}{8} \times \frac{5}{7} =$
18. $\frac{4}{9} \times \frac{2}{7} =$
19. $\frac{2}{9} \times \frac{2}{5} =$
20. $\frac{2}{9} \times \frac{2}{5} =$

MAD (Then multiply)

Multiplying Mixed Fractions (A)

Name: _____ Date: _____ Score: ____ /10

Multiply, simplify and express the product as a mixed fraction.

Ex 1. $1\frac{5}{8} \times 5\frac{3}{4} = \frac{13}{8} \times \frac{23}{4} = \frac{299}{32} = 9\frac{11}{32}$

2. $1\frac{1}{4} \times 2\frac{1}{3} =$

3. $4\frac{3}{7} \times 3\frac{3}{5} =$

4. $5\frac{1}{3} \times 1\frac{3}{4} =$

5. $2\frac{3}{5} \times 2\frac{1}{7} =$

6. $4\frac{3}{4} \times 1\frac{1}{6} =$

7. $5\frac{1}{2} \times 1\frac{1}{4} =$

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

9. $5\frac{7}{8} \times 1\frac{2}{3} =$

10. $2\frac{4}{9} \times 2\frac{5}{9} =$

* KCF *

Dividing Fractions (A)

Find the value of each expression in lowest terms.

Ex 1. $20 \div \frac{5}{3}$

$4\ \frac{20}{1} \times \frac{3}{\cancel{5}_1} = \frac{12}{1} = 12$

2. $\frac{8}{5} \div \frac{3}{2}$

3. $\frac{3}{2} \div 1$

4. $\frac{11}{6} \div \frac{11}{3}$

5. $\frac{7}{2} \div \frac{4}{5}$

6. $\frac{13}{3} \div \frac{15}{7}$

7. $\frac{12}{7} \div 4$

8. $16 \div \frac{13}{4}$

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

10. $\frac{11}{2} \div \frac{3}{4}$

11. $\frac{19}{10} \div \frac{1}{5}$

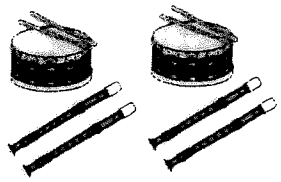
12. $\frac{12}{5} \div \frac{1}{8}$

Name: _____ Date: _____ Period: _____

You must show all your work for each problem including the multiple choice questions to receive credit!

1. Write each ratio as a fraction in simplest form. Then explain its meaning.

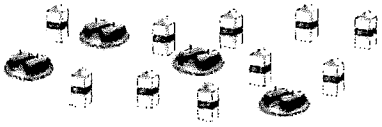
Ex



Flutes to Drums

Answer: 4 : 2

Meaning: for every 4 flutes there a 2 drums.

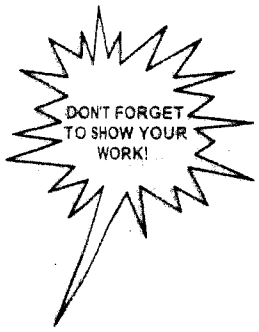


Sandwiches to Milk Cartons

Answer: _____

Meaning: _____

_____



2. A class has 6 boys and 15 girls. What is the ratio of boys to girls?

Answer: _____

3. The table shows the number of books Salvador has read. Find the ratio of mystery books to the total.

Type	Number of Books
Mystery	10
Nonfiction	7
Science Fiction	5
Western	2

Answer: _____

4. An animal shelter has 36 kittens and 12 puppies available for adoption. What is the ratio of puppies to kittens?

Answer: _____

5. The table shows how Levon spends his time at the gym. What is the ratio of the time on the treadmill to the time lifting weights?

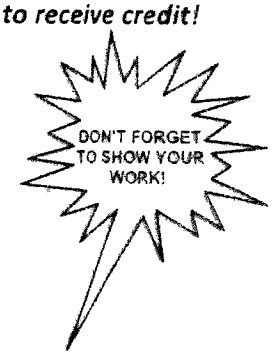
Activity	Time (min)
Treadmill	25
Lifting Weights	35

A) 2 to 3
B) 5 to 7
C) 4 to 5
D) 1 to 7

Name: _____ Date: _____ Period: _____

You must show all your work for each problem including the multiple choice questions to receive credit!

Complete each ratio table to solve questions #1-4.



1. Santiago receives an allowance of $7 every week. How much total does he receive after 4 weeks?

Allowance ($)	7			
Number of Weeks	1			4

Answer: _____

2. Tonya runs 8 kilometers in 60 minutes. At this rate, how long would it take her to run 2 kilometers?

Distance Run (km)	8		2
Time (min)	60		

Answer: _____

3. Lisa buys 12 packs of juice boxes that are on sale and pays a total of $48. Use a ratio table to determine how much Lisa will pay to buy 8 more packs of juice boxes at the same store.

Number of Juice Box Packs	9	12	20
Price ($)		48	

Answer: _____

4. A punch recipe that serves 24 people calls for 4 liters of lemon-lime soda, 2 pints of sherbet, and 6 cups of ice.

   A) Complete a ratio table to represent this situation.

People Served	24	12
Liters of Soda		
Pints of Sherbet		
Cups of Ice		

   B) How much of each ingredient would you need to make an identical recipe that served 12 people?

Liters of Soda: _____ Pints of Sherbet: _____ Cups of Ice: _____

5. Lee buys 5 DVDs for $60. At this rate, how much would he pay for 3 DVDs?

   A) $10 B) $30 C) $36 D) $58

Name: _____ Date: _____ Period: _____

You must show all your work for each problem including the multiple choice questions to receive credit!

1. Determine if each pair of ratios or rates is equivalent. Explain your reasoning.

A) $24 saved after 3 weeks; $52 saved after 7 weeks

Answer: _____

Explanation: _____

_____

B) 270 Calories in 3 servings; 450 Calories in 5 servings

Answer: _____

Explanation: _____

_____

2. Jenny is comparing the cost of two packages of socks. One package has 8 pairs of socks for $12. Another package has 3 pairs of socks for $6. Are the ratios/rates equivalent?

Answer: _____

3. The ratio of girls to boys in the junior high is 3 to 4. Which of these shows possible numbers of the girls and boys in the band?

   A) 30 girls, 44 boys
   B) 27 girls, 36 boys
   C) 22 girls, 28 boys
   D) 36 girls, 50 boys

4. Marcia made 10 bracelets for 5 friends. Jen made 12 bracelets for 4 friends. Are these ratios/rates equivalent?

Answer: _____

5. Club A raised $168 by washing 42 cars. Club B raised $152 by washing 38 cars. Are these fundraising rates equivalent?

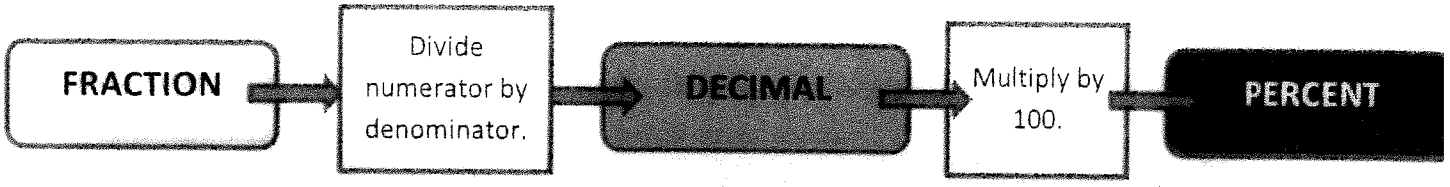
Answer: _____

_____

Name Date

Use your foldable!

FRACTIONS TO DECIMALS & PERCENTS SHEET 1



FRACTION	DECIMAL	PERCENT
$\frac{1}{2}$		
$\frac{3}{4}$		
$\frac{2}{5}$		
$\frac{1}{8}$		
$\frac{7}{8}$		
$\frac{1}{4}$		
$\frac{7}{10}$		
$\frac{3}{10}$		
$\frac{1}{3}$		
$\frac{5}{6}$		
$\frac{2}{9}$		
$\frac{5}{4}$		
$\frac{3}{16}$		
$\frac{8}{5}$		
$\frac{7}{50}$		

K5 Learning

Use Your Foldable!

Fractions, decimals and percents

Grade 6 Percents and Fractions Worksheet

Fill in the missing numbers; simplify all fractions.

Fraction	Decimal	Percent
$\frac{3}{100}$	0.03	3%
	0.47	
		86%
	0.25	
$\frac{31}{100}$		
		65%
$\frac{33}{100}$		
$\frac{2}{5}$		
	0.05	
		87%
	0.53	

KE Learning

Use Your Foldable!

Fractions, decimals and percents

Grade 6 Percents and Fractions Worksheet

Fill in the missing numbers; simplify all fractions.

Fraction	Decimal	Percent
$\frac{3}{100}$	0.03	3%
$\frac{21}{100}$		
	0.06	
		63%
$\frac{3}{25}$		
	0.48	
		43%
$\frac{1}{50}$		
	0.77	
		82%
$\frac{37}{100}$		

Order of Operations (B)

Name: *PEMDAS* Date: _____

Simplify each expression using the correct order of operations.

Ex $(8-6)^2 \times 7$

$2^2 \times 7$

4×7

28

$3^2 \times 4 + 6$

$10 + 3^3 \div 9$

$(9 - 2^3) \times 5$

$6^2 + 7 \times 2$

$6^2 \div 2 - 4$

$9 \times 8 + 3^2$

$(5^2 + 10) \times 2$

$(7 + 10) \times 2^2$

$7 \times (4^2 - 2)$

Order of Operations (A)

Name: _____ *PEMDAS* Date: _____

Simplify each expression using the correct order of operations.

Ex

$10 - 3^3 \div 9$

$10 - 27 \div 9$

$10 - 3$

7

$7^2 \div (4 + 3)$

$7 \times 5 - 2^2$

$(6 + 2^2) \times 10$

$3 \times 6 + 8^2$

$4^3 - 10 \div 5$

$3^2 \times 2 - 9$

$9 \times 3^2 - 8$

$6^2 \div 3 - 5$

$(9 - 5)^2 \div 4$

Name : _____ Score : _____

Teacher : _____ Date : _____

Combining Like Terms

Ex)
1) $8 + 6w - 8$
$1 + 6w$

Ex)
6) $8 - 4 + 5w + 3w$
$4 + 8w$

2) $8m + 9 - 4m$

3) $3(-4 + 6y)$

4) $s - 6s$

5) $-8c - 6(5 + 9c)$

7) $3(-4f - 8)$

8) $9 + 7(-3 - 2r)$

9) $5g + 3 - 8 + 2g$

10) $h + 9h$

Name : _____ Score : _____

Teacher : _____ Date : _____

Combining Like Terms

1) $5 - 7c - 6c + 4$

2) $9b - 3b + 2$

3) $-4z - 9z + 5 + 6$

4) $-2k - 7(8 + 4k)$

5) $-2(4 - 8k)$

6) $7f + 5f$

7) $9s + 3s + 5$

8) $-7(5q - 3) + 4q$

9) $c + 4c$

10) $-5(4y + 7)$

Infinite Algebra 1

Name_____

One-Step Equations

Date_____ Period___

Solve each equation.

Ex 1) $26 = 8 + v$

$-8 \quad -8$

$18 = v$

2) $3 + p = 8$

3) $15 + b = 23$

4) $-15 + n = -9$

5) $m + 4 = -12$

6) $x - 7 = 13$

7) $m - 9 = -13$

8) $p - 6 = -5$

9) $v - 15 = -27$

10) $n + 16 = 9$

Ex 11) $\frac{-104}{8} = \frac{8x}{8}$

$-13 = x$

12) $14b = -56$

Ex 13) $-6 = \frac{b}{18} \cdot \frac{18}{1}$

$-108 = b$

14) $10n = 40$

15) $\frac{v}{8} = 2$

16) $16 = \frac{k}{11}$

17) $-15x = 0$

18) $-17x = -204$

19) $21 = -7n$

20) $\frac{m}{4} = -13$

21) $-126 = 14k$

22) $-143 = -11x$

23) $-16 + x = -15$

24) $-5 = \frac{a}{18}$

25) $-17 = x - 15$

26) $n - 8 = -10$

27) $\frac{v}{7} = 8$

28) $a + 11 = 20$

29) $-7 + m = 8$

30) $18 + m = 8$