Oklahoma Christian School Summer Math Review Packet for 5th Grade to 6th Grade



Multiplication, Division, Decimals, Fractions, Metric and Customary Measurements, and Volume

Multiplying Whole Numbers

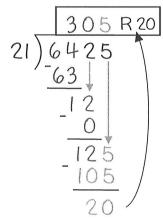
- I. Write the problem vertically
- 2. Multiply the ones digit of the bottom number by each of the digits in the top number, right to left
- 3. Bring down a zero and then multiply the tens digit of the bottom number by each digit in the top number, right to left
- 4. Bring down two zeros and repeat with the hundreds digit of the bottom number
- 5. Add up all of the products

ex: 3,481 x 142

Dividing Whole Numbers

- I. Write out the long division problem with the first number (dividend) underneath the division symbol and the second number (divisor) to the left of the division symbol
- 2. Divide the divisor into the smallest part of the dividend it can go into and write the number of times it can go in on top of the division symbol
- 3. Multiply the number on top by the divisor and write the product under the number you divided into in step 2
- 4. Subtract your product from the number above it
- 5. Bring down the next digit of the dividend
- 6. Repeat steps 2-5 until there is nothing left to bring down.
- 7. If your last subtraction answer is not zero, write the remainder on top

ex: 6,425 ÷ 21



Find each product. Show your work.				
ı. 238 x 5	2. 832 x 156	3. 4,899 x 67	4. 756 x 300	
5. 19 x 863	6. 188 x 732	7. 3,249 x 173	8. 609 x 840	
Find each quotient. Sho	bw your work.			
9. 876 ÷ 2	ю. 9,473 ÷ 5	II. 396 ÷ 24	12. 8,911 ÷ 45	
13. 700 ÷ 12	14. 1,065 ÷ 15	15. 2,737 ÷ 305	16. 4,516 ÷ 22	
Solve each problem, sho	owing all work.	L		
17. Mrs. Kleim bought 5 boxes of 15 pencils to give to her students. If she has 26 students in her class, how many pencils can she give each student? How many pencils will she have left over?		18. Sarah and her 3 friends split a bag of candy evenly. They each ate 13 pieces of candy and there were 2 pieces leftover. How many pieces of candy were originally in the bag?		

Rounding with Whole Numbers & Decimals

ten-thousands	thousands	hundreds	tens	sauo	tenths	hundredths	thousandths

- 1. Keep all digits to the left of the place you are rounding the same
- 2. If the digit to the right of the rounding digit is less than 5, keep the rounding digit the same. If it's 5 or greater, increase the rounding digit by 1.
- 3. Change all places to the right of the digit you are rounding to 0. (Trailing zeros after the decimal are unnecessary)

ex: round 52.943 to the nearest tenth

52.943

less than 5, so the 9 stays the same

52.900

don't need trailing zeros after the decimal

52.9

Word Form & Expanded Form

- 1. Word Form: write the whole number in word form, translate the decimal to "and", & write the decimal as if it were a whole number, followed by the name of the place of the last digit
- 2. <u>Expanded Form</u>: write the value of each non-zero digit separately, with addition signs between them

ex: 209.315

two hundred nine and three hundred fifteen thousandths

200 + 9 + 0.3 + 0.01 + 0.005

Comparing & Ordering Decimals

- 1. Compare the whole number portions of the numbers. If they are different write > for greater than or < for less than.
- 2. If the whole numbers are the same, compare each digit to the right of the decimal point, one at a time until you find digits that are different. (If necessary, add zeros at the end of a decimal.)

ex: 13.702 13.74

13 = 13

13.7 = 13.7

13.70 < 13.74

So, 13.702 < 13.74

Round the numb	er 21,49	8.2536 to the nearest in	ndicated	place.		
19. tenth		20. hundred	21. tha	ousandth	22. one	
23. thousand 24. hundredth		24. hundredth	25. ten		26. ten-thousand	
Complete the ch	nart belo	w.				
Standard Form		Expanded Form	TOTALL.	of to many and	ord Form	
3.962	27.		\$ 200,000	28.	Control of the set distributed pulled on the greatest of a section of the section	
29.		100 + 2 + 0.09		30.		
31.	32.			Five thousand six twelve hundredths	hundred eighty-five and	
8,770.006	33.			34.		
35.	90	00 + 10 + 4 + 0.3 + 0.02 + 0.	.008	36.		
37.	38.			Two thousand nine	and thirty-five thousandths	
Compare each p	pair of n	umbers by writing <, >,	or = in	the provided circle.	•	
39. 0.046 O).13	40. 9.52 90.13	41.	24.13 24.130	42. 15.96 15.906	
0.964		6.83 6.825	45. 7.256 7.24 46. 32.9 3.290			
Order the numb	ers fror	n least to greatest.				
47. 6.86, 6.8, 7, 6.9, 6.827			48. 1	48. 12.03, 1.2, 12.3, 1.203, 12.301		

Adding & Subtracting Decimals

I. Write the problem vertically, lining up the decimal points

ex: 12.8 - 1.52

2. Add zeros, if necessary

12.80

3. Add or subtract the numbers as if they were whole numbers

1.52

4. Bring the decimal point straight down

Multiplying Decimals

 Write the problem vertically with the numbers lined up to the right (decimals do NOT need to be lined up)

ex: 3.24 x 0.8

2. Ignore the decimal points and multiply the numbers as if they were whole numbers

3. Count the total number of decimal places in the two factors and put a decimal point in the product so that it has that same number of decimal places

Dividing Decimals

- I. Write the dividend under the division symbol and the divisor in front of the division symbol
- 2. Move the decimal in the divisor after the number and then move the decimal in the dividend the same number of places and bring it up
- 3. Ignore the decimal point and divide as if whole numbers
- 4. If there is a remainder, add a zero to the end of the dividend, bring it down, and then continue dividing until there is no remainder

ex: $32.3 \div 0.5$

Find each sum or difference. Show your work.				
49. 8.74 + 10.36	50. 37.4 – 8.55	51. 12.9 + 105.67	52. 450.89 – 213.33	
53. 24.1 + 3.74	54. 14.76 – 9.8	55. 622.85 + 53.49	56. 67 – 14.06	
Find each product or qu	uotient. Show your work.			
57. 4.5 x 6	58. 144.8 ÷ 4	59. 2.7 x 0.8	60. 6.2 ÷ 0.04	
61. 8.9 x 2.5	62. I5.8 ÷ 0.5	63. 14.8 x 0.12	64. 16.2 ÷ 1.2	
Solve each problem, sh	owing all work.	·		
	nch every day, Monday had \$20 at the start of the y did he have left after	66. Three friends went out \$47.31. If they split the money does each frien	e bill evenly, how much	

Adding & Subtracting Fractions

- I. Rename the fractions to equivalent fractions with common denominators
- ex: $4\frac{4}{9} + \frac{2}{3}$
- 2. Add or subtract the numerators and keep the denominator the same
- 3. If mixed numbers, add or subtract the whole numbers

 $4 \frac{10}{q} = 5 \frac{1}{q}$

4. If possible, simplify the answer ε change improper fractions to mixed numbers

Multiplying Fractions

- I. Turn a whole number into a fraction by giving it a denominator of I
- ex: $6 \times \frac{2}{3}$

2. Cross-simplify the fractions if possible

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

3. Multiply the 2 numerators and the 2 denominators

= 4

4. If possible, simplify the answer $\mbox{\it E}$ change improper fractions to mixed numbers

Dividing Fractions

- I. Turn a whole number into a fraction by giving it a denominator of I
- ex: $12 \div \frac{1}{2}$
- 2. Keep the 1st fraction the same, change the division symbol to multiplication, and flip the 2nd fraction to its reciprocal
- $\frac{12}{1} \div \frac{1}{2}$

3. Multiply the 2 fractions

- $\frac{12}{1} \times \frac{2}{1} = \frac{24}{1} = \boxed{24}$
- 4. If possible, simplify the answer $\ensuremath{\mathcal{E}}$ change improper fractions to mixed numbers

Find each sum or difference. Show your work.

Find each sum or difference. Show your work.				
67. $\frac{7}{8} + \frac{5}{6}$	68. $\frac{9}{10} - \frac{1}{2}$	69. $\frac{3}{11} + \frac{2}{3}$	70. $\frac{11}{12} - \frac{13}{18}$	
71. $4\frac{5}{q} + 7\frac{1}{3}$	72. $12\frac{9}{14} - 9\frac{3}{7}$	73. $3\frac{3}{5} + 2\frac{3}{4}$	74. $2\frac{2}{15} - 1\frac{2}{3}$	

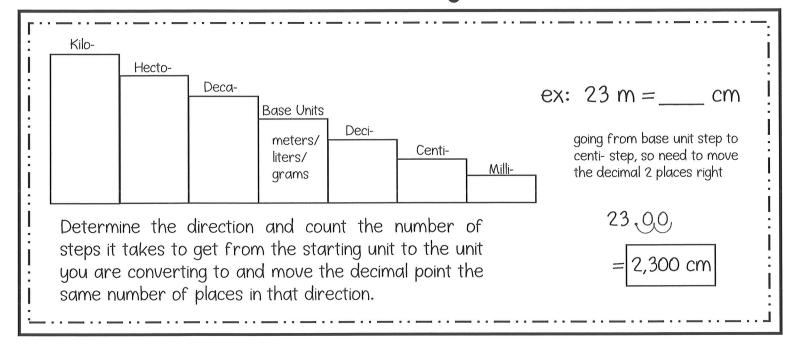
Find each product or quotient. Show your work.

75. $\frac{1}{6} \times \frac{3}{4}$	76. 6 $\div \frac{1}{3}$	77. $15 \times \frac{2}{3}$	78. $\frac{1}{2} \div 3$
79. 1/6 x 10	80. $\frac{1}{4} \div 2$	81. $\frac{5}{q} \times \frac{3}{20}$	82. $4 \div \frac{1}{5}$

Solve each problem, showing all work.

Solve each problem, showing all work.	
83. Jacqui ran 1 1/2 miles on Monday, Wednesday, and Friday and 3/4 mile on Tuesday and Thursday. How far did she run in all?	84. Tyrell gave 3 packs of baseball cards to his friends. He gave each friend 1/3 of a pack. How many friends got baseball cards?

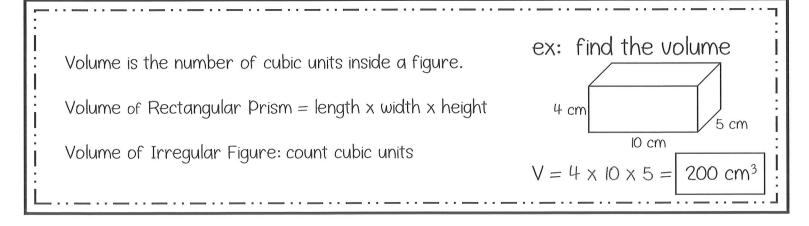
The Metric System



The Customary System

Length	Weight	Capacity	ex: 18 c = pt
I ft = 12 in I yd = 3 ft I mi = 5,280 ft	1 lb = 16 oz 1 T = 2,000 lb	c = 8 fl oz pt = 2 c qt = 2 pt gal = 4 qt	cups are smaller units of measure than pints, so need to divide
		nit to a smaller unit maller unit to a largei	$1 \times 2 \times 2 \times 1 \times $

Volume



Convert each Metric measurement. Show your work.

85.
$$1.9 \text{ km} = ___ \text{m}$$

86.
$$23 g = ___ mg$$

88.
$$0.07 \text{ kg} = \underline{\hspace{1cm}} \text{cg}$$

89.
$$6 \text{ cm} = ___ \text{m}$$

90.
$$35 \text{ ml} = 1$$

Convert each Customary measurement. Show your work.

91.
$$48 \text{ in} = ____ \text{ft}$$

93.
$$3T = ____$$
 lb

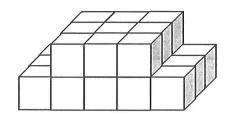
94.
$$1.5 \text{ mi} = ____ \text{ft}$$

95.
$$32 pt = ____ gal$$

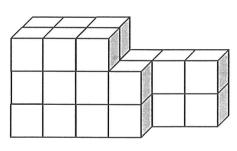
96.
$$32 \text{ oz} =$$
____lb

Find the volume of each figure. Show your work.

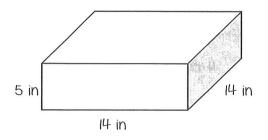
97.



98.



99.



100.

