# 5th Grade Going Into 6th Grade Summer Math Packet

Dear Parents,

Next school year, your child will be in 6th grade! In this packet you will find practice of the 5th grade skills that are needed prior to starting 6th grade math. Here are some additional resources to assist your child.

IXL.com

Khan Academy

Math Help

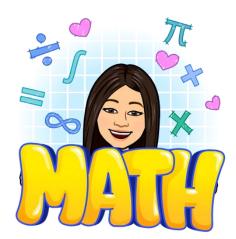
ABCYa.com

Math Playground

**Fun Brain** 

Mr.Nussbaum

Please complete two- three pages in this packet each week. Remember to show your work. NO CALCULATORS!



### Whole Numbers – Adding and Subtracting

A) 451 + 23 + 659	B) 700 – 128	
451 23	χ <b>Ø Ø</b> 10	
+ 659 1134	$\frac{-1\ 2\ 8}{5\ 7\ 2}$	

1134		
NO CALCULATOR! SHOW ALL WORK!		
1. 623 + 433 + 56	2. 893 – 395	
3. 1987 + 432 + 543 +28	4. 196 – 129 =	
5. 98 + 45 - 32	6. 65 – 32 + 77	
7. 439 + 53 – 488	8. 763 – 492 + 157	

### Whole Numbers – Multiplying and Dividing

A) 653 x 29	1820 ÷ 28			
t t	1020 : 20			
653	65			
<u>x 29</u>	28)1820	28	28	
	χ			
5877	-168	<u>x 6</u>	<u>x 5</u>	
<u>+13060</u>	140	168	140	
18937	<u>-140</u>			

NO CALCULATOR! SHOW ALL WORK!		
1. 975 x 8	2. 109 x 7	3. 23 x 15
4. 73 x 18	5. 471 x 16	6. 981 x 65
7. 2970 ÷ 5	8. 2124 ÷ 4	9. 32751 ÷ 9
10. 5472 ÷ 19	11. 42800 ÷ 25	12. 3348 ÷ 31

### Decimals – Adding and Subtracting

### Rules:

- 1) Line up decimal points, if a number does not have a decimal point it is a whole number with the decimal point at the end.
- 2) Annex zeros to hold place.

4.1 + 3 + 5.61 + 2116 - 7.498

3) Add or subtract vertically.

4.10 16.000

4) Bring down the decimal point.

	,,g	3.00	<u>- 7.498</u>
		5.61	8.502
NO	CALCULATOR! SHOW ALL WORK!		
_	42.78 + 19.56	2. 0.0997 + 1.4	3. 6.29 + 5
1	0.663 + 1.58	5. \$62.74 + \$1.75 + \$12	6. 0.0674 + 0.12 + 0.0098
4.	0.003 + 1.56	3. \$02.74 + \$1.75 + \$12	0. 0.0074 + 0.12 + 0.0038
7	40.75 – 17. 46	8. 0.95 – 0.68	9. 6-3.8
	40.75 - 17.40	8. 0.35 – 0.08	3. 0 – 3.8
10	0. \$60 - \$31.74	11. \$12.36 - \$8.75	12. 21.007 – 4.678
l			

### Decimals - Multiplying and Dividing

(3)		
Rules:		
Multip	lying	
1)	Line up digits, starting on the right.	(6.432)(4.15)
2)	Multiply	6.432 (3 decimal places)
3)	Place the decimal point in the answer by starting at the right	x 4.15 (2 decimal places)
	and moving a number of places equal to the sum of the	32160
	decimal places in both numbers multiplied.	64320
		<u>2572800</u>
		26.69280 (5 decimal places)
<u>Dividir</u>	ng .	W 20
1)	If the divisor is not a whole number, move the decimal point	27.216 ÷ 4.8
	To the right to make it a whole number and move the decimal	<u>5.67</u>
	Point in the dividend the same number of places.	48.)272.16
2)	Divide.	<u>-240</u>
3)	Bring the decimal point up.	321
		<u>-288</u>
		336
		-336

2. 5.9 x 1.2

### NO CALCULATOR! SHOW ALL WORK!

1. 5.4 x 0.07

	100 mg 1 mg 100
2 62 2 45	
3. 69.3 x 0.15	4. 3.96 x 3.3
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6. 0.24 ÷ 0.8
8. 6.56 ÷ 4

## **Equivalent Fractions**

Name three equivalent fractions to the one given:

_	4	
1.	-	
//S=//S	5	

2. 
$$\frac{10}{15}$$

3. 
$$\frac{1}{7}$$

4. 
$$\frac{16}{40}$$

5. 
$$\frac{12}{30}$$

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

7. 
$$\frac{2}{9}$$

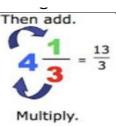
8. 
$$\frac{14}{35}$$

10. 
$$\frac{80}{120}$$

### Converting Mixed Numbers to Improper **Fractions**

Multiply the whole number by the denominator and add the numerator.

Keep the same denominator.



to a mixed number

Divide the numerator by the denominator

$$\frac{20}{3} = 6\frac{2}{3}$$

6 becomes the whole number

2 is the numerator of the fraction as shown 3 is the denominator

### Convert to Mixed Number or Improper Fractions:

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

2. 
$$\frac{15}{2}$$
 =

3. 
$$7\frac{2}{3} =$$

4. 
$$\frac{31}{6}$$
 =

5. 
$$8\frac{3}{5} =$$

6. 
$$\frac{74}{9} =$$

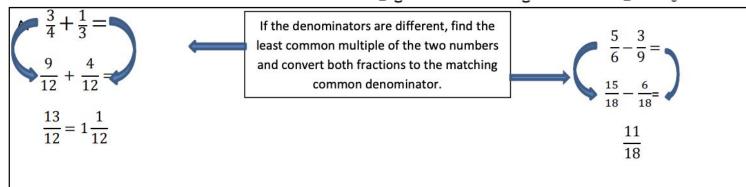
7. 
$$2\frac{7}{9} =$$

8. 
$$\frac{49}{11}$$
 =

9. 
$$12\frac{5}{10}$$
 =

10. 
$$\frac{122}{13}$$

### Fractions - Adding and Subtracting



NO CALCULATOR! SHOW ALL WORK!

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

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

3.  $\frac{2}{10} + \frac{1}{2} =$ 

4.  $\frac{7}{8} - \frac{1}{2} =$ 

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

6.  $\frac{5}{9} - \frac{2}{4} =$ 

$$7. \frac{7}{12} + \frac{2}{9} =$$

$$8. \frac{14}{15} + \frac{3}{5} =$$

$$9. \frac{9}{16} + \frac{5}{24} =$$

$$10. \frac{12}{16} - \frac{1}{4} =$$

$$11. \frac{27}{33} - \frac{5}{11} =$$

$$12. \frac{15}{18} - \frac{4}{9} =$$

### Fractions – Multiplying

Multiply the numerators 
$$\frac{2}{5} \times \frac{3}{4} = \frac{6}{20}$$
Multiply the denominators 
$$\frac{2}{5} \times \frac{3}{4} = \frac{6}{20}$$
Reduce the fraction if 
$$\frac{6}{20} = \frac{3}{10}$$

NO CALCULATOR! SHOW ALL WORK!		
1. $\frac{1}{3}x\frac{1}{5} =$	$2. \frac{2}{7} x \frac{2}{5} =$	3. $\frac{4}{9}x\frac{1}{2} =$
$4. \frac{3}{8} x \frac{3}{4} =$	$5. \frac{9}{10} x \frac{1}{9} =$	6. $\frac{7}{12}x\frac{2}{5} =$
7. $\frac{6}{11}x^{\frac{2}{4}} =$	8. $\frac{5}{6}x\frac{2}{9} =$	9. $\frac{12}{20}x\frac{3}{7} =$

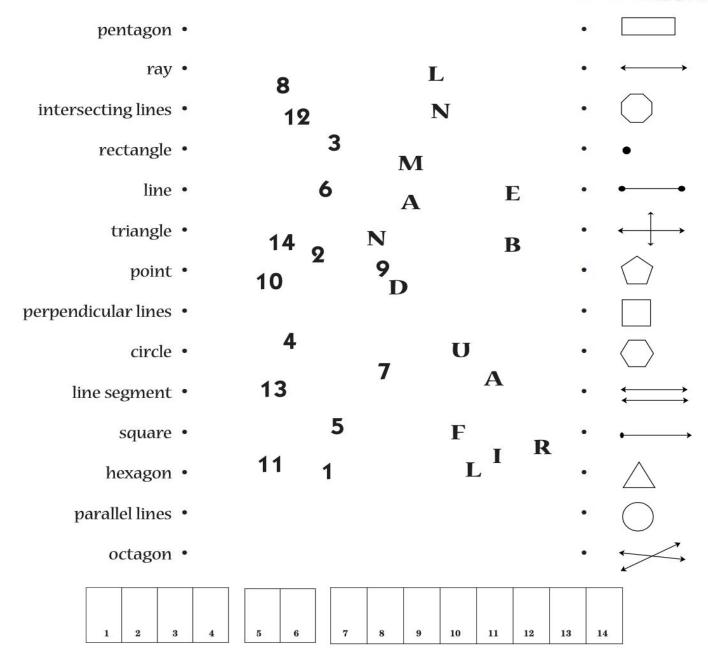
$$10. \frac{5}{13} x \frac{4}{6} = 11. \frac{15}{25} x \frac{5}{15} = 12. \frac{6}{10} x \frac{3}{9} =$$



**Geometric Terminology** 

Match the geometric terms on the left side of the page to the correct shape on the right. Use a ruler or a straightedge to draw a line from the term to the shape (dot to dot). Your line will pass through a number and a letter. The number tells you where to write your letter in the code boxes to answer the riddle below.

### What should you do if Godzilla suddenly starts to cry?



### **Alert Convertor**

Name	Date

Convert small units of measure to large units. Example: inches into feet  $\rightarrow$  12 in. = 1 ft.  $\rightarrow$  total inches in the first problem below  $\div$  12 = number of feet. Use the chart for reference.

$$7 \text{ days} = 1 \text{ week}$$

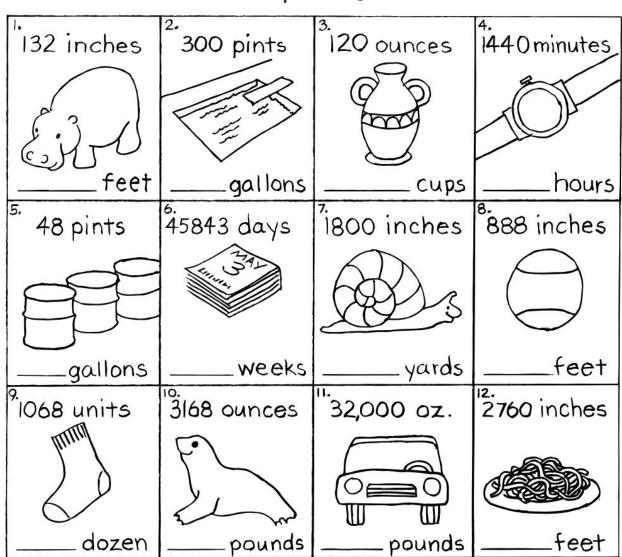
$$32 \text{ oz.} = 1 \text{ qt.}$$

$$36 \text{ in.} = 1 \text{ yd.}$$

$$12 \text{ units} = 1 \text{ doz}.$$

$$60 \text{ min.} = 1 \text{ hr.}$$

$$16 \text{ oz.} = 1 \text{ lb.}$$



# A Stinky Riddle

Name	Date
	D: LU. U



skunks measure length?

Answer each problem. Then use the Decoder to solve the riddle by filling in the spaces at the bottom of the page.

- In the number 52,370, the digit 2 is in which place?
- In the number 619,246, which digit is in the hundred thousands place?
- In the number 2,027,635, the digit 3 is in which place? \_\_\_\_
- In the number 37,196,511, which digit is in the millions place?
- In the number 402,819,335, which digit is in the ten millions place? \_\_\_\_\_
- In the number 9,817,248,100, which place is the digit 9 in?
- In the number 6,543,210,789, which place is the digit 5 in? \_\_\_\_\_
- Which number is greater: 727,912 or 699,534?
- 0 Which number is smaller: 4,847,266 or 5,000,122?
- Which number is greater: 7,446,726,012 or 0 7,446,732,011? \_

### Decoder

1,440,120,012	l
ones	l
1 <b>V</b>	
4,847,266	
7	
thousands	
699,534 <b>A</b>	
hundreds	
7,446,732,011 <b>T</b>	
billions	
tens	
ten millions B	
0	
5,000,122 <b>D</b>	
ten thousands V	
) <b>E</b>	
nundred millions M	
F	
Н	
27,912 <b>E</b>	

IN	"S	C	
			Q

Scholastic Success With: Math, Grade 5 @ Scholastic Teaching Resources

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### **Every Number Has Its Place**

Write each decimal in standard form on the lines below. Fit the number into the puzzle. The decimal points occupy one space and are already written in the puzzle.

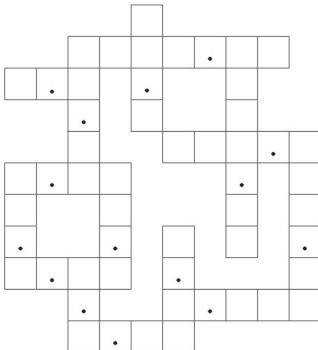
AII C	eddy willien in the puzzle.
1.	three and forty-four hundredths
2.	four and six tenths
3.	forty-one and seven tenths
4.	four thousand sixteen and thirty-two hundredths

12. three hundred seventeen and nine tenths

14. six and nineteen hundredths

15. six and ninety-nine hundredths

13. three thousand seven and fifty-five hundredths



5. nine hundred forty-seven and thirty-six hundredths	
6. six and five tenths	
7. fifty-six and four tenths	
8. one and thirty-five hundredths	
9. one and six thousandths	
10. forty-five and sixty-three hundredths	
11. fifteen and three tenths	

# Finding the Volume of Rectangular Prisms

Find the volume of each rectangular prism. Draw a line to match each answer on the left with one on the right.

LEFT

1.

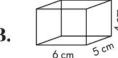
Volume = \_\_\_\_

RIGHT

Volume = \_\_\_\_

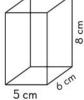
Volume = \_\_\_\_

B.



Volume = \_\_\_\_

3.



Volume = \_\_\_\_

C.



Volume =

4.



Volume =

D.



Volume = \_\_\_\_\_

TRIPLE MATCH Challenge.

A set of 12 identical cubes have sides of 2 centimeters. What is the total volume of all the cubes? \_\_\_\_\_

Circle the answers that match above.