

# NUMBERS & OPERATIONS

## Menu Choice board

5th Grade!

Name: \_\_\_\_\_

due date: Feb. 23rd (Fri.)

Choose activities from the project menu below that equal \$10 or more.  
Shade in each box to show which activities you completed.

Standards	Appetizers \$1	Entrées \$5	Desserts \$3
<p>I can recognize that in a multi-digit number, a digit in one place represents 10 times as much as it represents in the place to its right and 1/10 of what it represents in the place to its left.</p> <p>I can explain the powers of ten with whole-number exponents and decimals.</p> <p>I can read, write, and compare decimals to the thousandths place.</p> <p>I can use place value understanding to round decimals to any place value.</p>	<p><b>Quiz</b> Create a five problem multiple choice quiz where students have to identify the place value of whole digit numbers. Don't forget to include an answer key.</p> <p><b>Dominos</b> Create a six piece domino game where students match multiplying decimals and whole numbers by powers of ten with their answers.</p>	<p><b>Talk Show Script</b> Create a script for a talk show where you explain the place value system and how to identify the place value of whole numbers. Include at least 5 example problems into your script.</p> <p><b>Lesson Plan</b> Think about lessons that you learned and enjoyed the most. Design your own math lesson where you teach multiplying decimals and whole numbers using the powers of ten.</p> <p><b>Picture Book</b> Create a picture book where the main character has to compare decimals to the thousandths place in order to solve the conflict. A successful book will include at least six comparisons.</p>	<p><b>Poster</b> Find and cut out fifteen numbers you find in the newspaper. Create a poster where you properly place the numbers in a chart based on their place value.</p> <p><b>Classifieds</b> Create 10 classified ads for any items you wish. Represent the value of each item by multiplying decimals and whole numbers by powers of ten. (Example: Car = \$5 x 10,000).</p> <p><b>Anchor Chart</b> Create an anchor chart that teaches others how to compare decimals to the thousandths place. Include a large title, step by step instructions, and several example problems.</p>
5.NBT.A.1	5.NBT.A.2	5.NBT.A.3	5.NBT.A.4

Standards

Appetizers \$1

Entrées \$5

Desserts \$3

I can recognize that in a multi-digit number, a digit in one place represents 10 times as much as it represents in the place to its right and 1/10 of what it represents in the place to its left.

**Quiz**  
Create a five problem multiple choice quiz where students have to identify the place value of whole digit numbers. Don't forget to include an answer key.

**Talk Show Script**  
Create a script for a talk show where you explain the place value system and how to identify the place value of whole numbers. Include at least 5 example problems into your script.

**Poster**  
Find and cut out fifteen numbers you find in the newspaper. Create a poster where you properly place the numbers in a chart based on their place value.

I can explain the powers of ten with whole-number exponents and decimals.

**Dominos**  
Create a six piece domino game where students match multiplying decimals and whole numbers by powers of ten with their answers.

**Lesson Plan**  
Think about lessons that you learned and enjoyed the most. Design your own math lesson where you teach multiplying decimals and whole numbers using the powers of ten.

**Classifieds**  
Create 10 classified ads for any items you wish. Represent the value of each item by multiplying decimals and whole numbers by powers of ten. (Example: Car = \$5 x 10,000).

I can read, write, and compare decimals to the thousandths place.

**Spinner Game**  
Design a game spinner that includes at least four different decimals. Spin the spinner twice and write down the two decimals. Compare the decimals and circle the larger number. Do this three times!

**Picture Book**  
Create a picture book where the main character has to compare decimals to the thousandths place in order to solve the conflict. A successful book will include at least six comparisons.

**Anchor Chart**  
Create an anchor chart that teaches others how to compare decimals to the thousandths place. Include a large title, step by step instructions, and several example problems.

I can use place value understanding to round decimals to any place value.

**Real World Connection**  
When would you round decimals in real life? Write and solve two real life word problems that require the rounding of decimals.

**Organized Chart**  
Find examples of decimals in magazines, newspapers, and other print sources. Cut them out and create a chart where you round the decimals to the nearest whole number, tenths, and hundredths

**Book Order**  
Look through the book order or Amazon and choose 20 books you would like to purchase. Estimate the total cost of these books to the nearest dollar.

I/E

small

groups →

choose

any 2

to complete.

# Number Patterns

Write numbers on the lines to continue each pattern below.  
Then write the rule that describes the pattern.

12,	15,	22,	25,	32,	<u>35</u> ,	<u>42</u> ,	<u>45</u>
3,	11,	7,	15,	11,	_____	_____	_____
96,	86,	79,	69,	62,	_____	_____	_____
40,	29,	38,	27,	36,	_____	_____	_____
2,	10,	4,	20,	14,	_____	_____	_____
3,	8,	16,	21,	42,	_____	_____	_____
10,	30,	22,	66,	58,	_____	_____	_____
3,	12,	6,	24,	12,	_____	_____	_____
80,	40,	160,	80,	320,	_____	_____	_____
900,	300,	360,	120,	180,	_____	_____	_____
6,480,	3,240,	1,080,	540,	180,	_____	_____	_____
2,400,	600,	3,600,	900,	5,400,	_____	_____	_____

Rule

+ 3 , + 7

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**Problem-Solving Practice****TEKS 5.15(B)***More Algebraic Expressions***Write an expression for each real-world situation. Then evaluate.**

1. Mrs. Perry has \$105 to divide among her 3 children. How much money will each child receive?  
\_\_\_\_\_
2. Marcus received 15 packages of baseball cards for his birthday from his friends. If each package of baseball cards contains 8 cards, how many cards did he receive altogether?  
\_\_\_\_\_
3. There are 195 cars parked in the mall parking garage. There are 5 levels in the garage. If an equal number of cars are parked on each level, how many cars are on each level?  
\_\_\_\_\_
4. Jacob has 82 fewer dollars than his sister Jada in his savings account. If Jada has \$235 in her account, how much does Jacob have?  
\_\_\_\_\_
5. Mr. Blackburn has 24 students in his science class. He asks each student to bring in 3 insects to study. How many insects will there be altogether?  
\_\_\_\_\_
6. Manuel is helping set up chairs for a school assembly. He has a total of 216 chairs that need to be arranged in rows of nine. How many rows of chairs will there be when he is finished?  
\_\_\_\_\_
7. The prices of certain items at the pool concession stand are shown in the table. Julia buys a juice pop and another item. If the other item was a bottled water, how much money did she spend?  
\_\_\_\_\_

Item	Price (\$)
bottled water	1.50
candy bar	0.50
hot dog	1.75
juice pop	0.75

**Objective 2**  
**Exercise 16**

**Patterns, Relationships, and Algebraic Reasoning**

*Expectation: Select from and use diagrams and number sentences to represent real-life situations*

1. Jeff wants to build 5 birdhouses as gifts. To build 1 birdhouse, he uses 8 pieces of wood and 48 nails. Which number sentence could be used to find the total number of nails Jeff will need to build the 5 birdhouses?

A  $(5 \times 8) + (5 \times 48) = \square$

B  $5 \times 48 = \square$

C  $(5 \times 48) + 8 = \square$

D  $8 \times 48 \times 5 = \square$

2. Suzanne bought 5 boxes of cookies for her party. Each box had 24 cookies. At the party, her guests ate 75 cookies. Which number sentence could be used to find  $S$ , the number of cookies Suzanne had left after the party?

A  $S = (5 \times 24) + 75$

B  $S = 24 + 75$

C  $S = (5 \times 24) - 75$

D  $S = 5 + 24 + 75$

3. The fourth- and fifth-grade students at Red River Elementary are taking a test. There are 154 fourth-grade students and 212 fifth-grade students. Each student needs 2 pencils for the test. Which number sentence could be used to find  $T$ , the total number of pencils needed by the fourth- and fifth-grade students?

A  $T = (2 \times 154) + 212$

B  $T = 154 + 212 + 2$

C  $T = (154 + 212) \div 2$

D  $T = 2 \times (154 + 212)$

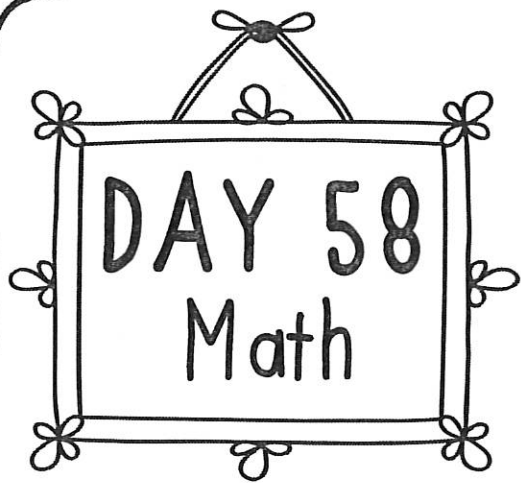
4. Barbie earned \$44 for babysitting and \$26 for running errands. She must use half of the money she earned to repay a loan from her mother. Which number sentence could be used to find how much money Barbie owes her mother?

A  $(44 + 26) \div 2 = \square$

B  $(44 - 26) \times 2 = \square$

C  $(44 \times 26) \div 2 = \square$

D  $(44 + 26) \times 2 = \square$

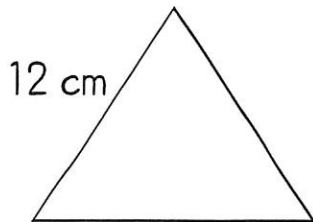


# Perimeter

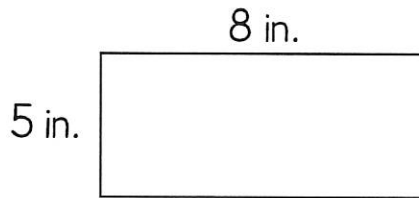
Directions:

Find the perimeter of each shape.

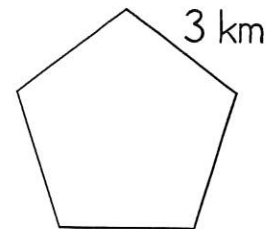
Remember to label the unit.



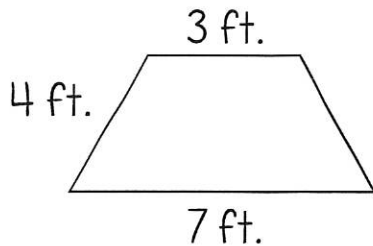
P = \_\_\_\_\_



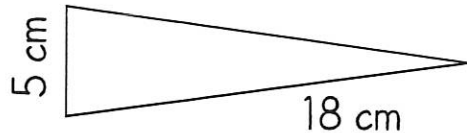
P = \_\_\_\_\_



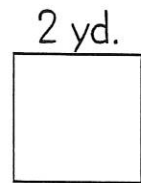
P = \_\_\_\_\_



P = \_\_\_\_\_

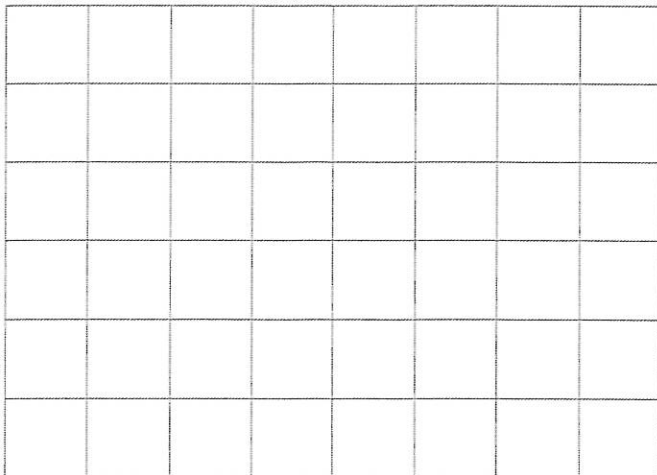


P = \_\_\_\_\_

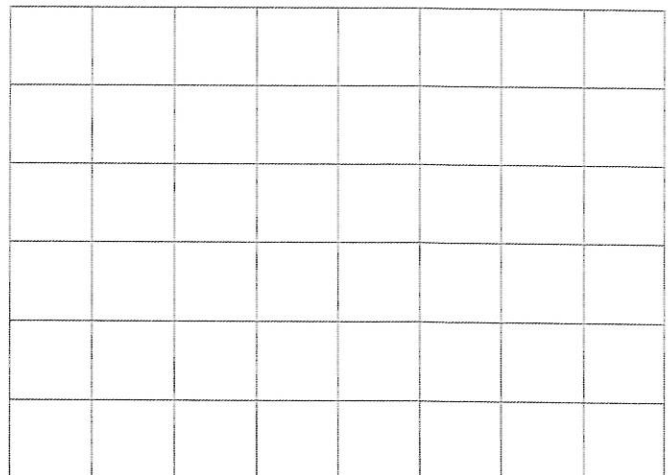


P = \_\_\_\_\_

Draw a rectangle with a perimeter of 10 cm.

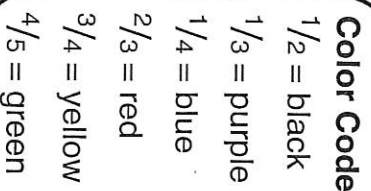


Draw a rectangle with a perimeter of 12 cm.



Date

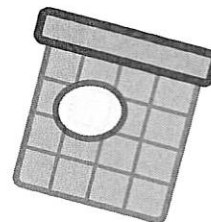
**Directions:** Reduce each fraction in the design below to its lowest terms. Then color each section as directed.



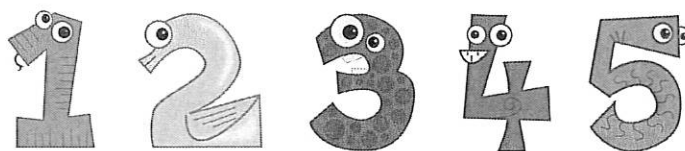
**Work out what day it would be today if:**

**a) Yesterday was 16 days before Wednesday.**

**b) Ten days ago, yesterday was five days before Friday.**



**Use each of these numbers once to fill in the gaps below:**



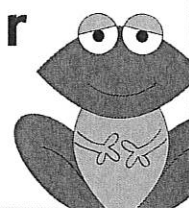
$$\begin{array}{r}
 \text{X} \\
 \hline
 =
 \end{array}$$

**Complete the grid using the numbers 1 - 8 so that each side adds up to the middle number.**

	15	

- 1 - Jump up and down for 30 seconds.**
- 2 - Measure your pulse for 1 minute.**

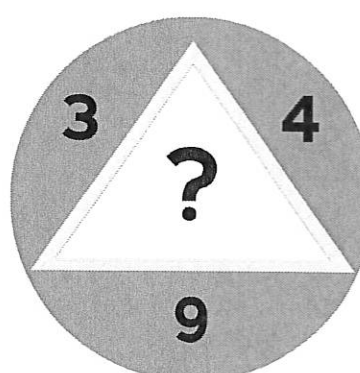
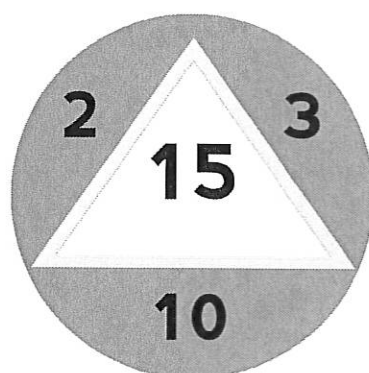
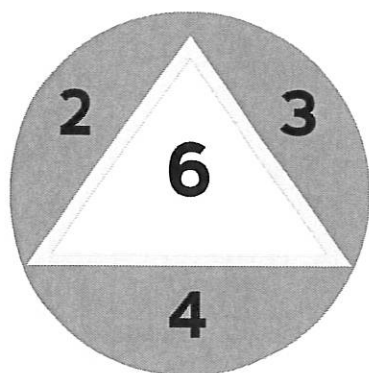
**If it stayed at the same rate, how many times would your pulse beat in 1 hour?**





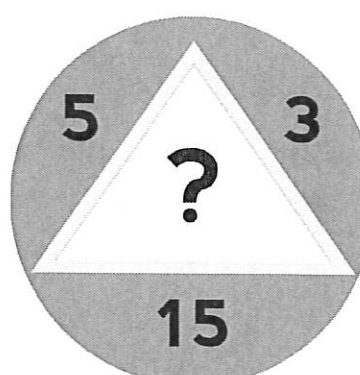
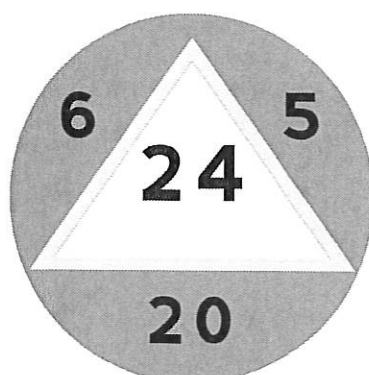
**Find the missing number in the magic circle by working out the pattern.**

(You can use all of the four operations)



**Find the missing number in the magic circle by working out the pattern.**

(You can use all of the four operations)



Use each of the 5 numbers at the bottom once to make:

4

You can multiply, divide, take away, and add.



Use each of the 5 numbers at the bottom once to make:

41

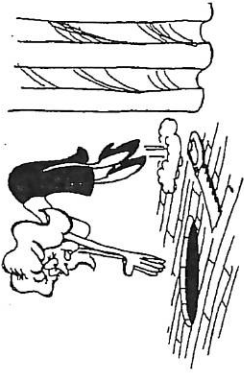
You can multiply, divide, take away, and add.



**Problem-Solving Practice****TEKS 5.5(A), 5.6***Function Tables*

1. Isaiah earns \$4 for every dog he walks. Write a function table that can be used to find how much money he will make after walking 6, 8, and 10 dogs.
2. Twelve people are able to ride the Serpent of Fire roller coaster at one time. Write a function table that shows the total number of people that have been on the roller coaster after 1, 2, 3, and 4 rides.
3. At the local movie theater it costs \$10.00 for 2 students to see a movie. It costs \$15.00 for 3 students, and it costs \$20.00 for 4 students. Let the number of students be the input. What is the function rule that relates the number of students to the cost of tickets?
4. At Elmwood Middle School, sixth graders spend 1 hour every night doing homework. Seventh graders spend 2 hours, and eighth graders spend 3 hours. Let the students' grade be the input. What is the function rule between the students' grade and the amount of time the students spend on homework every night?
5. A bead shop sells glass beads for \$7 each. Write a function rule to represent the total selling price of  $g$  glass beads.
6. Use the function rule in Exercise 5 to find the selling price of 10, 11, or 12 glass beads.

# Why Did the Actress Cut a Hole in the Theater Floor and Dive Through?



Complete the table for each function. Find each answer at the bottom of the page and write the corresponding letter above it.

1

$y = x + 5$	
x	y
2	
15	
99	

2

$y = x - 8$	
x	y
50	
24	
9	

3

$y = 4x$	
x	y
16	
45	
2.5	

4

$y = \frac{x}{2}$	
x	y
24	
9	
0	

5

$y = 3x + 2$	
x	y
4	
18	
0	
1.5	

6

$y = 8x - 5$	
x	y
3	
4.5	
10	
7.2	

7

$y = 30 - 2x$	
x	y
6	
1	
7.5	
0	

8

$y = x^2 + 1$	
x	y
5	
7	
12	
20	

6.5	20	4.5	28	14	42	19	10	52.6	7	15	50	56	64	31	30	12	145	16	2	180	18	104	26	0	75	401	1
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