Place Value, Rounding

a) Solve the following.

i) ☐ × ☐ = ☐   ii) ☐ + ☐ = ☐   iii) ☐ − ☐ = ☐

b) Write greater than (>), less than (<), or equal to (=) in the box between the two numbers.

i) ____ ☐ ____   ii) ____ ☐ ____   iii) ____ ☐ ____

c) Which number is modeled in the place-value chart below?

Thousands	Hundreds	Tens	Ones	Tenths	Hundredths	Thousandths

Answer: _____

d) Round each number to the nearest ten.

i) ☐   ii) ☐   iii) ☐

e) Write each group of numbers in order from least to greatest.

i) ☐

ii) ☐

Number Line, Fractions

a) On the number line below, indicate _____.

-9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9
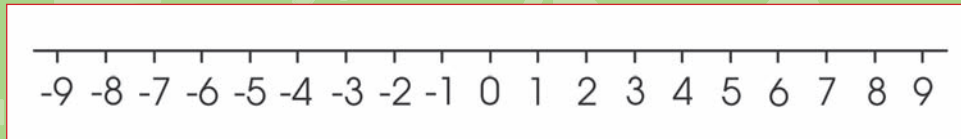
b) Shade the models to show the correct fractions below.

i) Fraction = [ ] [ ]

ii) Fraction = [ ] [ ]

c) Find the value of each percent.

i) ____ % of ____ = ____   ii) ____ % of ____ = ____

d) Place either a > or < symbol between the following pairs of fractions or decimals to indicate which is greater.

i) ____ [ ] ____   ii) ___ [ ] ____   iii) ____ [ ] ____

e) Complete the pattern in the following number lines by filling in the missing numbers.

i) [ ][ ][ ][ ][ ][ ][ ][ ][ ]

ii) [ ][ ][ ][ ][ ][ ][ ][ ][ ]

Percents, Hundreds Chart

a) What is the correct way to write the number _____ in words?

b) Write the equivalent fractions of:

i) ____ ⟶ ____   ii) ____ ⟶ ____   iii) ____ ⟶ ____

c) Find the value of each percent.

i) 25 % of ____ = ____   ii) 50 % of ____ = ____

iii) ____ % of ____ = ____   iv) ____ % of ____ = ____

d) Using the one hundred chart below circle the number that is ____ more. Continue the pattern of adding ____ more.

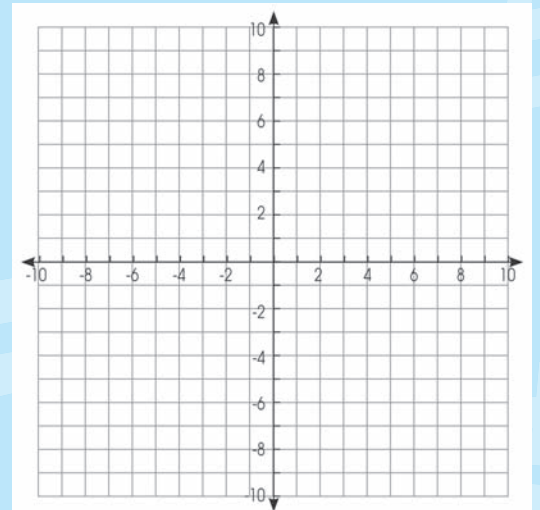| 1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Plotting, Equations and Input-Output

a) Plot the following coordinates on the accompanying grid:

A = (___, ___)

B = (___, ___)

C = (___, ___)

D = (___, ___)

b) Solve the following

i) ☐ × ☐ = ☐   ii) ☐ + ☐ = ☐   iii) ☐ − ☐ = ☐

c) Examine the input-output table shown below.

Input	Output	Which rule describes the data?

Answer: _____

Graphing, Patterning and Equations

a) On the number line below, indicate _____.

```
-9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9
```
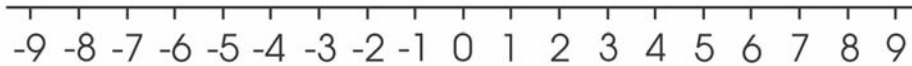
b) Complete the pattern by filling in the missing numbers.

i)

ii)

c) How would you show the following pattern using letters?

i. ABA   ii. BAB   iii. AAB   iv. ABB

d) Evaluate each expression.

i) a = _____

ii) b = _____

Patterning and Graphing

a) Continue the pattern shown in the one hundred chart below.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

b) Graph the following

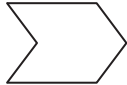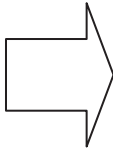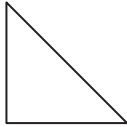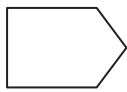| x	y
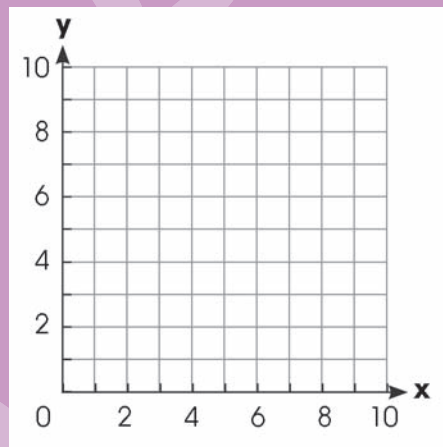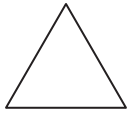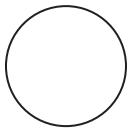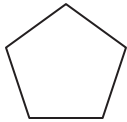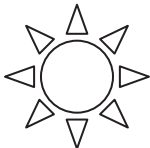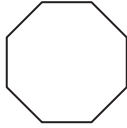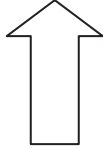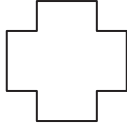
c) What items would be next in the following pattern?

Transformations

Transform each shape.

	Reflection	Translation		Reflection	Translation
△			⬡		
○			↑		
⬠			✚		
♡			⊳		
☺			⇒		
☾			◺		
☀			⬠		

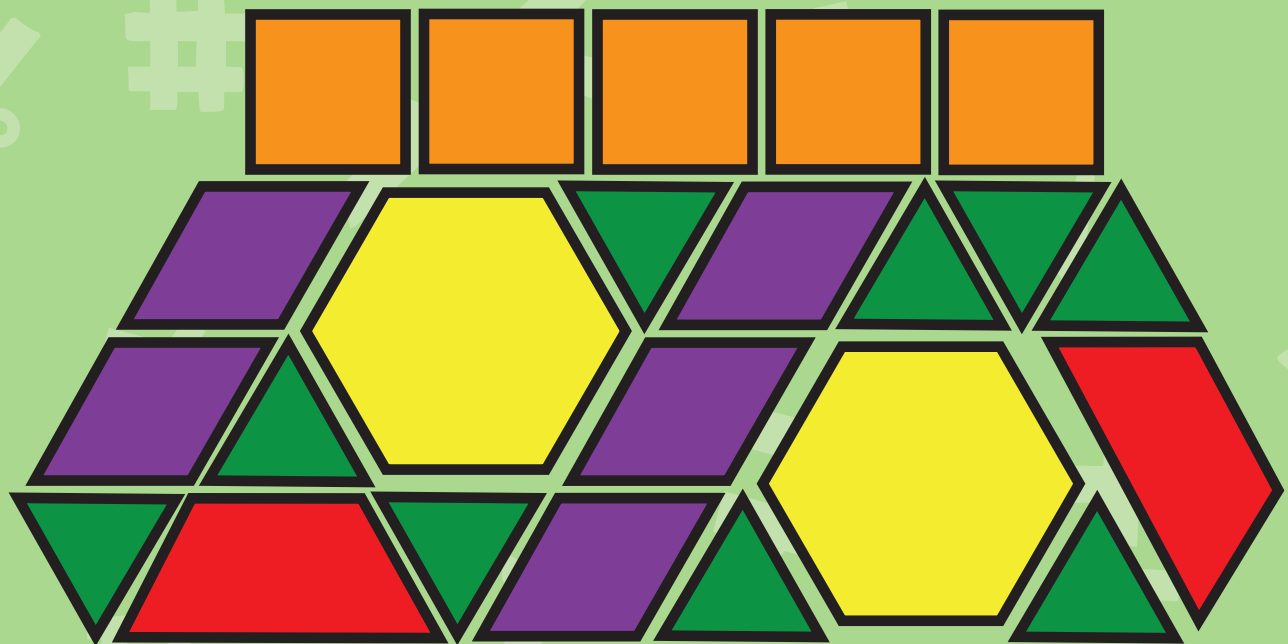Five Strands of Math – Drills Big Book CC3211

Pattern Blocks

a) Identify the different pattern block shapes seen in the design below by drawing or placing them beside their names. Write the number of times the shape is used.

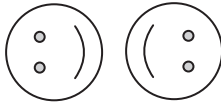Hexagon ___   Rhombus ___   Square ___
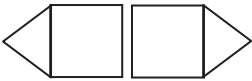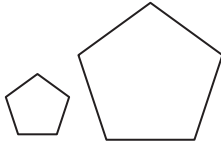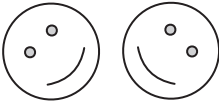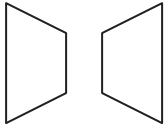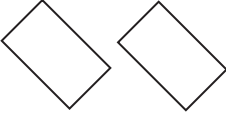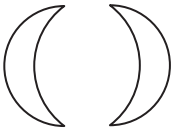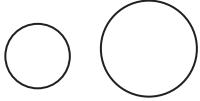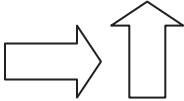
Trapezoid ___   Triangle ___

b) Cut out the different pattern blocks and arrange them on the mini poster. Using the same pattern blocks, arrange them into other shapes and designs.

Reflection, Rotation, Translation and Enlargement

Describe the transformation (reflection, rotation, translation, and enlargement) needed to make the first shape look like the second shape.

	Transformation		Transformation

Perimeter and Area

Measure the following lengths for each shape below using a ruler, then find the perimeter and area of each shape.

i)

Perimeter = _____
Area = _____

ii)

Perimeter = _____
Area = _____

iii)

Perimeter = _____
Area = _____

iv)
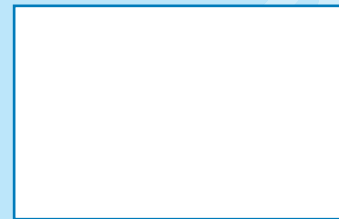
Perimeter = _____
Area = _____

v)

Perimeter = _____
Area = _____

vi)

Perimeter = _____
Area = _____

vii)
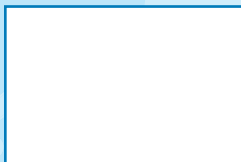
Perimeter = _____
Area = _____

viii)

Perimeter = _____
Area = _____

Temperature

a) What temperatures are shown below?

i) _____ °F/°C

ii) _____ °F/°C

iii) _____ °F/°C

iv) _____ °F/°C

v) _____ °F/°C

vi) _____ °F/°C

vii) _____ °F/°C

viii) _____ °F/°C

ix) _____ °F/°C

x) _____ °F/°C

xi) _____ °F/°C

xii) _____ °F/°C

xiii) _____ °F/°C

xiv) _____ °F/°C

xv) _____ °F/°C

Time

What time does each clock show below?

i)

_____

ii)

_____

iii)

_____

iv)

_____

v)

_____

vi)

_____

vii)

_____

viii)

_____

ix)

_____

x)

_____

xi)

_____

xii)

_____

xiii)

_____

xiv)

_____

xv)

_____

The chart below shows the favorite colors of the students in Mrs. Thurston's class.

Favorite Colors of Mrs. Thurston's Class

Color	1	2	3	4	5	6	7	8	9
Black	████	████	████	████					
Blue	████	████	████	████	████	████	████		
Green	████	████	████	████	████				
Orange	████	██							
Red	████	████	████	████	████	████			
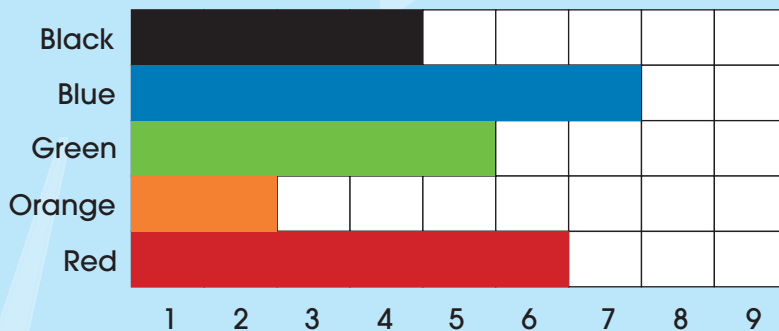
i) How many students were surveyed for this graph? _____

ii) What color was the most popular favorite color? _____

iii) What color was the least popular favorite color? _____

iv) How many more students chose blue than black? _____

v) How many more students chose green than orange? _____

vi) How many total students chose green and black? _____

vii) What fraction of students chose black? _____

viii) What fraction of students chose red? _____

ix) What is the ratio of students who chose orange to students who chose green? _____

x) What is the ratio of students who chose blue to students who chose red? _____

xi) A total of eight students chose which two colors as their favorites? _____

xii) Two fewer students chose what color than black? _____

Reflection Conduct the same survey in your class. Complete the questions above using your own survey results.

Flipping a Coin

The chart below shows ten coin flips done by Shauna during class.

Flip Number	Head/Tails	Flip Number	Heads/Tails
First	Heads	**Sixth**	Tails
Second	Heads	**Seventh**	Heads
Third	Tails	**Eighth**	Tails
Fourth	Heads	**Ninth**	Heads
Fifth	Tails	**Tenth**	Heads

i) Before starting, how likely was Shauna to flip a tail? _____

ii) Before starting, how likely was Shauna to flip a head? _____

iii) How many heads did Shauna flip? _____

iv) How many tails did Shauna flip? _____

v) What percent of the flips were heads? _____

vi) What percent of the flips were tails? _____

vii) What is the ratio of heads to tails on Shauna's flips? _____

viii) Suppose the numbers were doubled. How many
heads would Shauna have? _____

ix) Suppose the numbers were doubled. How many
tails would Shauna have? _____

x) Which flips did Shauna get a "head" on the coin? _____

xi) Which flips did Shauna get a "tails" on the coin? _____

xii) What is Shauna most likely to flip next? _____

Reflection

Flip a coin 10 times and record your results in a chart. What do you notice about the probability of getting heads or tails?

Calendar

The calendars below show three different months.

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

i) What day of the week is the 1st of the month? _____

ii) What patterns with number seven do you see? _____

iii) What patterns with number 9 do you see? _____

iv) Is the last day of the month the same as the first? _____

v) What day of the week will the 1st of the next
month be? _____

vi) What day of the week is the 17th? _____

vii) Can you predict what day the beginning of
the second next month will start with? How? _____

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

viii) What was the last day in the previous month? _____

ix) What is the same about both months? Explain. _____

x) What is different about the months shown?
Explain. _____

xi) Are there any other months in the year that
would have the same patterns? Why or why not? _____

xii) If you skip count by four, how many days
would that be? _____

xiii) If you skip count by two, how many days
would that be? _____