Mathematics

CONCEPTS REVIEW

INSTRUCTIONS: Study all sections carefully. Answer questions where applicable.

SECTION 1: *Place Value*

	Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Units	DECIMAL POINT	Tenths	Hundredths	Thousandths
Number	1000000	100000	10000	1000	100	10	1	●	1/1 0ths	1/10 0ths	1/10 00ths
753.25					7	5	3	●	2	5	
12345.123			1	2	3	4	5	●	1	2	3
1.232							1	●	2	3	2
3,444,222.1	3	4	4	4	2	2	2	●	1		

POSITION = Place e.g. ones, thousands, tenths, etc.
VALUE = Worth e.g. 300, 7,000, 0.5 etc.

Write the place value **position** of the underlined digit.

1. 6,7̲89 _____
2. 56.3̲4 _____
3. 73,672.13̲4 _____
4. 3̲42,985.6 _____

Write the **value** of the underlined digit.

1. 6̲79 _____
2. 5̲7,382 _____
3. 36̲2,892 _____
4. 78.9̲3 _____

SECTION 2: *Number Forms*

STANDARD FORM	WORD FORM	EXPANDED FORM
463	four hundred sixty-three	400 + 60 + 3
78,906	seventy-eight thousand nine hundred six	70,000 + 8,000 + 900 + 6
0.67	sixty-seven hundredths	0.6 + 0.07
354.27	Three hundred fifty-four and twenty-seven hundredths	300 + 50 + 4 + 0.2 + 0.07
2,679,321	Two million, six hundred seventy-nine thousand, three hundred twenty-one	2,000,000 + 600,000 + 70,000 + 9,000 + 300 + 20 + 1

Write the following numbers in **STANDARD FORM**

1. 300 + 20 + 9 _____
2. Sixty-two and thirty-nine hundredths _____
3. Eight hundred thirty-six thousand, four hundred fifty-six

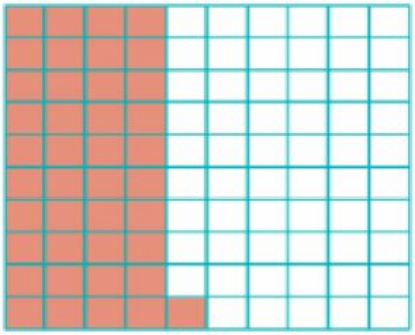
Write the following numbers in **EXPANDED FORM**.

1. 69,534 _____
2. Nine thousand, seven hundred eighty-seven _____
3. 89.76 _____

Write the following numbers in **WORD FORM**.

1. 35,761 _____
2. 67.215 _____
3. 600 + 50 + 3 _____

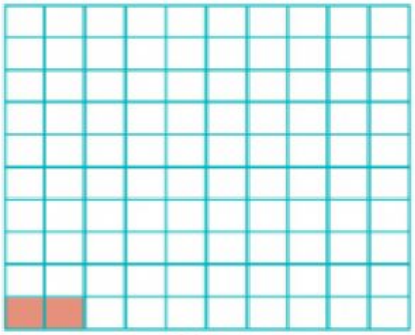
SECTION 3: *Decimals Forms*



Fraction: $\frac{41}{100}$

Word Form: forty-one hundredths

Decimal Form: 0.41

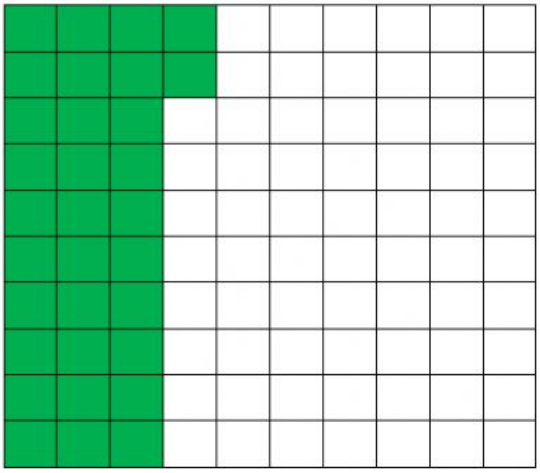


Fraction: $\frac{02}{100}$

Word Form: two hundredths

Decimal Form: 0.02

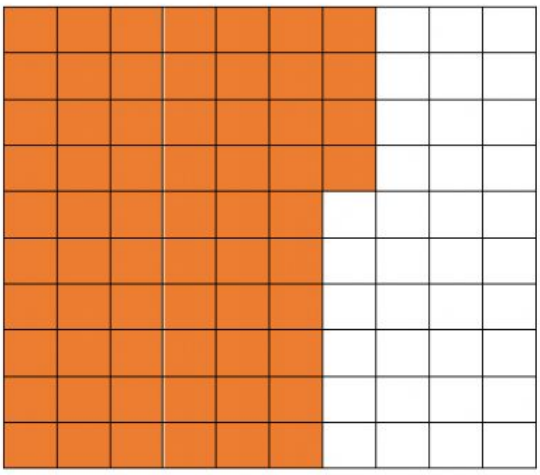
Complete:



Fraction: _____

Word Form: _____

Decimal Form: _____



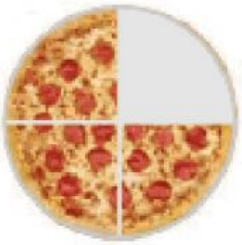
Fraction: _____

Word Form: _____

Decimal Form: _____

SECTION 4: *Fractions*

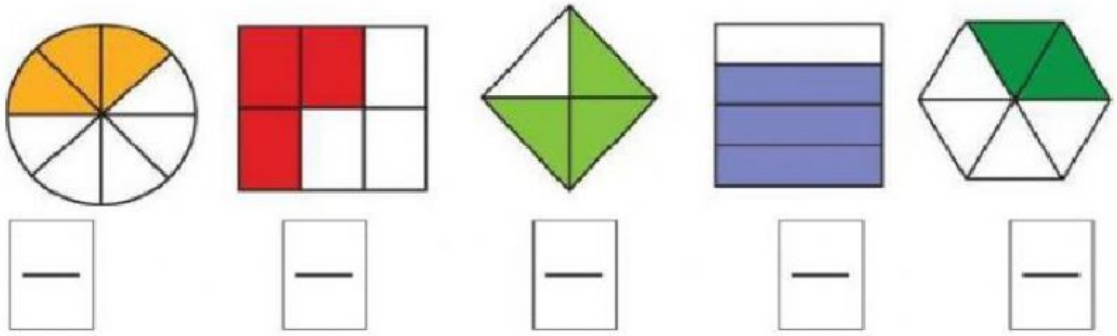
A fraction is part of a whole.



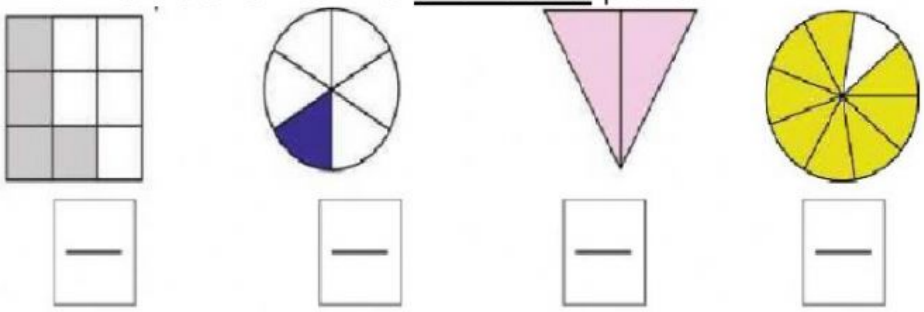
$\frac{3}{4}$ ← Numerator

$\frac{3}{4}$ ← Denominator

Find the fraction of the **shaded** parts.

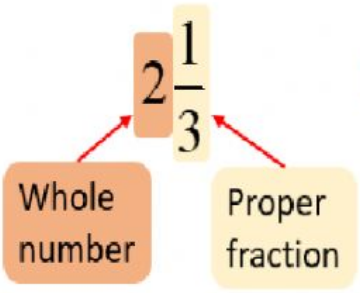


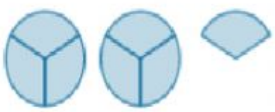
Find the fraction of the **unshaded** parts.

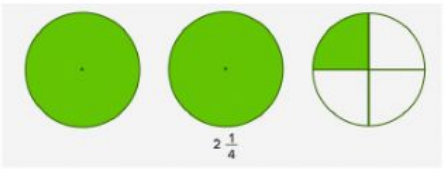


Mixed Numbers

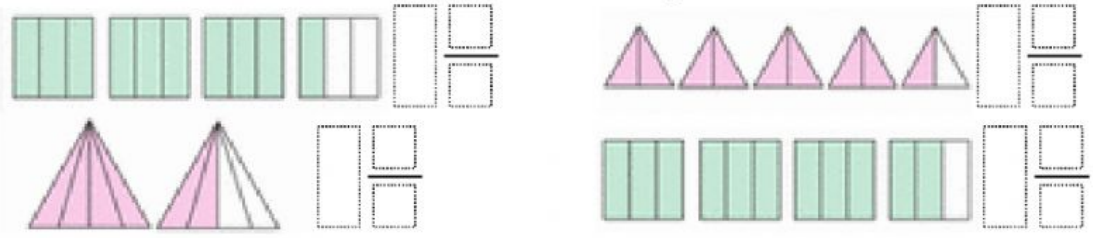
A mixed number is a number that consists of a whole number and a proper fraction.





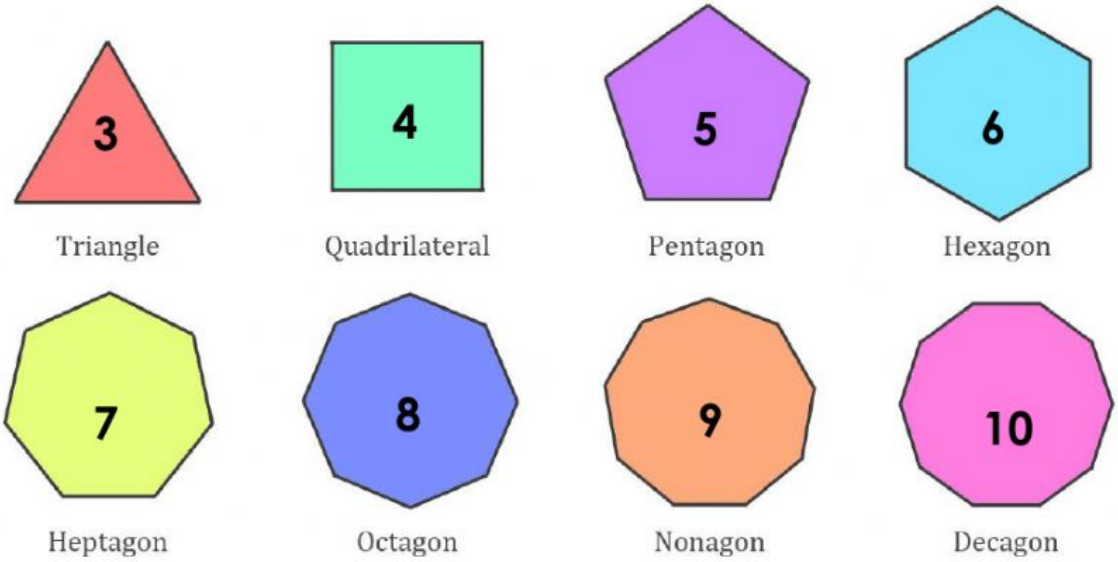


Write a mixed number for the following.

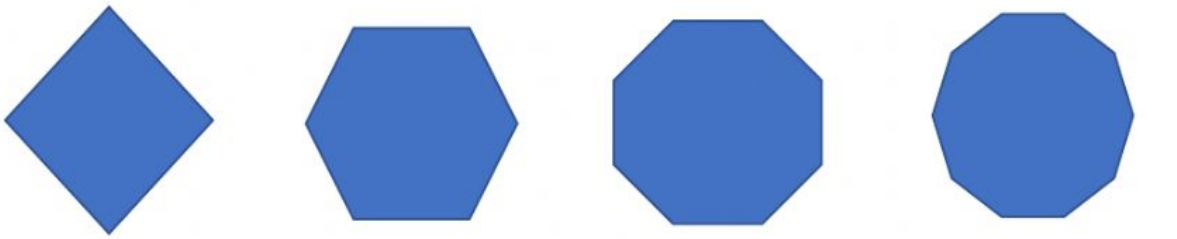


SECTION 5: *Geometry*

POLYGONS

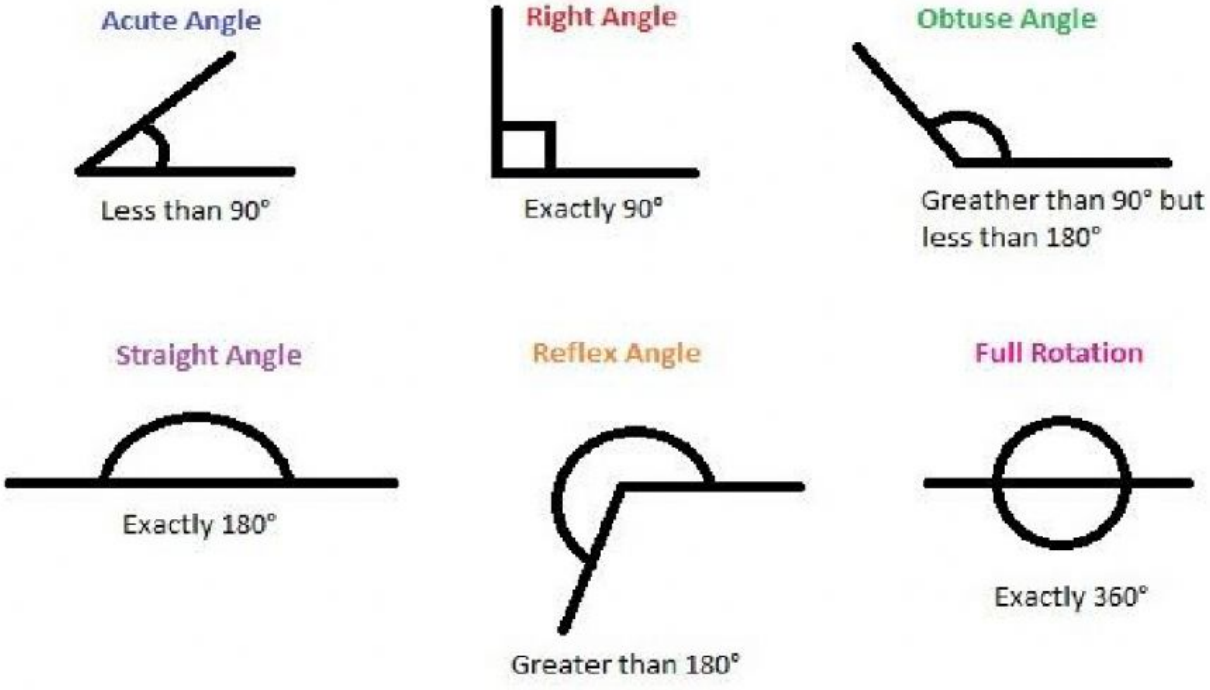


Identify the following polygons.

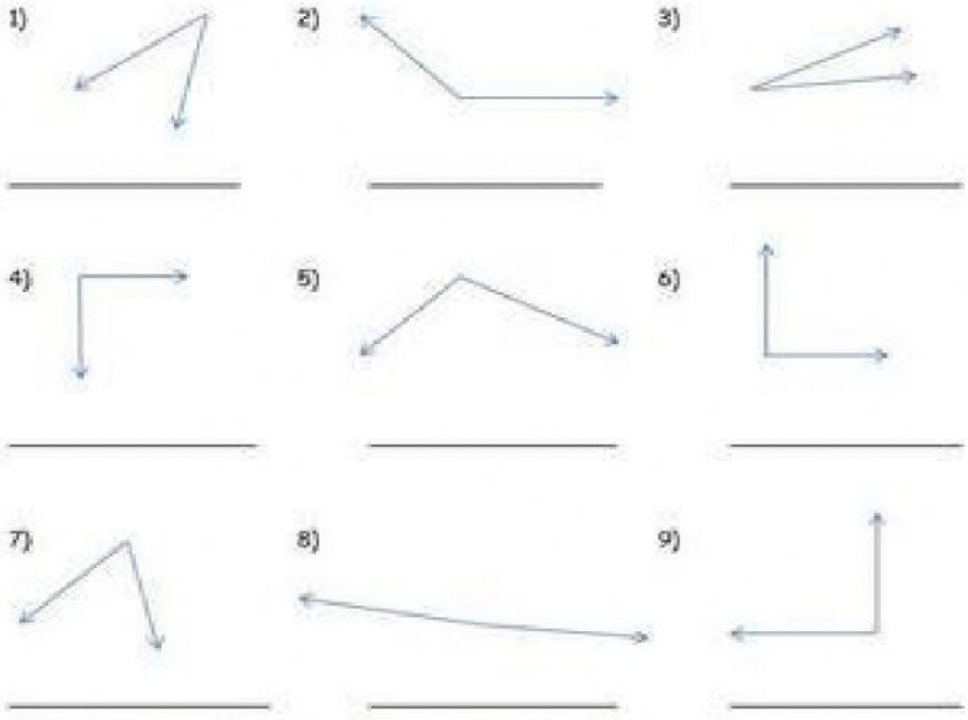


_____ _____ _____ _____

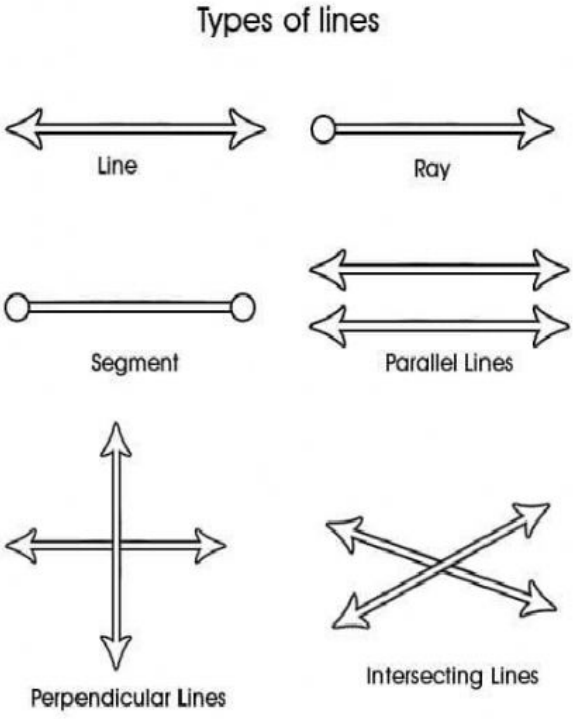
ANGLES



Identify the following angles.



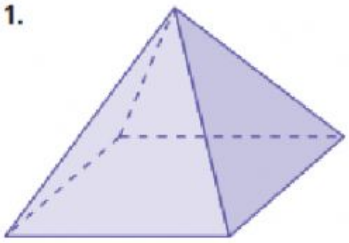
LINES & LINE SEGMENT



Identify the following lines:

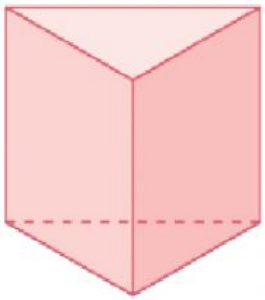
FACES, EDGES & VERTICES

1.



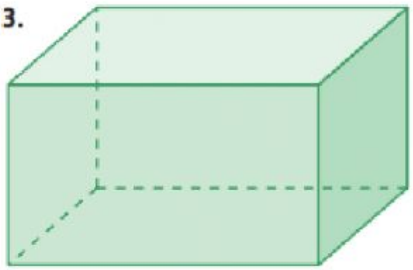
Faces = 5
Edges = 8
Vertices = 5

2.



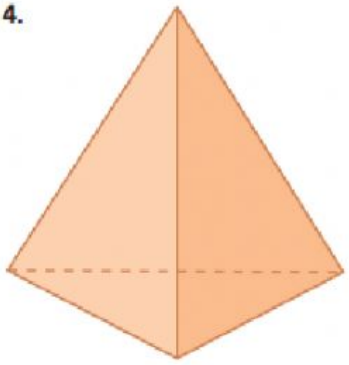
Faces = 5
Edges = 9
Vertices = 6

3.



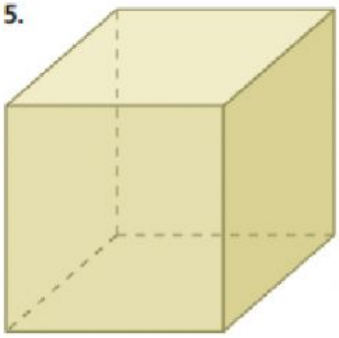
Faces = 6
Edges = 12
Vertices = 8

4.



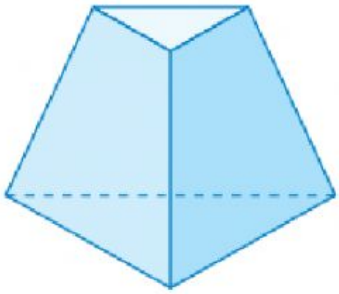
Faces = 4
Edges = 6
Vertices = 4

5.



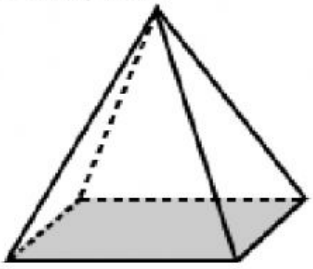
Faces = 6
Edges = 12
Vertices = 8

6.

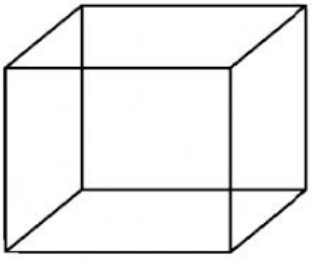


Faces = 5
Edges = 9
Vertices = 6

Complete



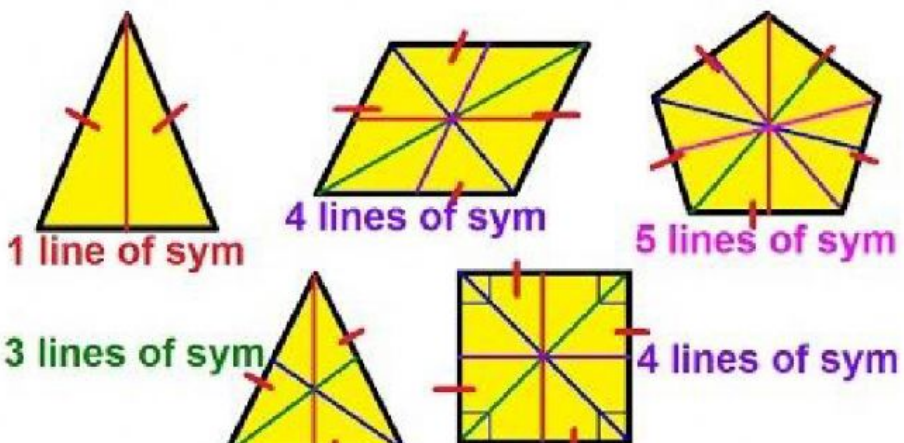
Faces: _____
Edges: _____
Vertices: ___



Faces: _____
Edges: _____
Vertices: ___

LINES OF SYMMETRY

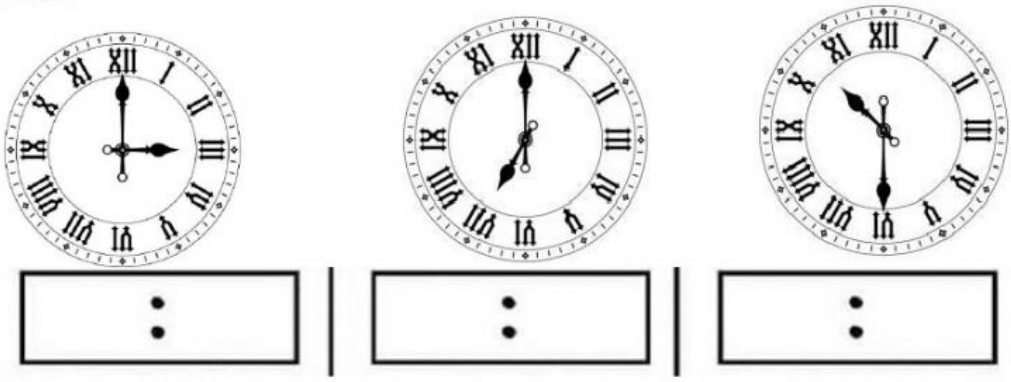
What Are Lines of Symmetry?



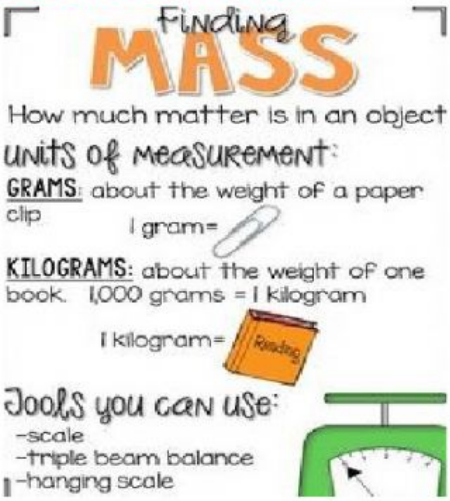
SECTION 6: *Roman Numerals on a Clock*

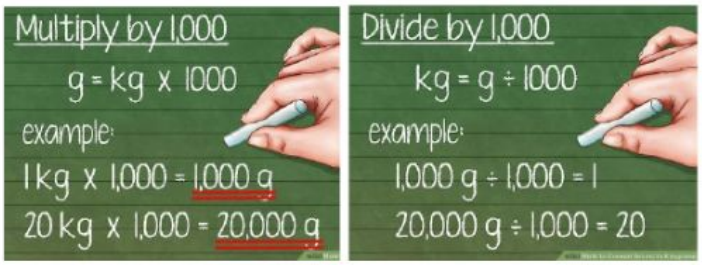
1	I	11	XI	50	L
2	II	12	XII	100	C
3	III	13	XIII	500	D
4	IV	14	XIV	1000	M
5	V	15	XV		
6	VI	16	XVI		
7	VII	17	XVII		
8	VIII	18	XVIII		
9	IX	19	XIX		
10	X	20	XX		

REMEMBER: The short hand is the hour, the long hand is the minutes.



SECTION 7: *Mass*



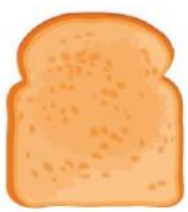


Convert the following measurements.

3kg= _____g 6,000g=_____ kg

50kg= _____g 57,000g=_____ kg

What unit of measurement would you use to measure the following objects? Write **grams** or **kilograms.**





_____ _____ _____ _____ _____