

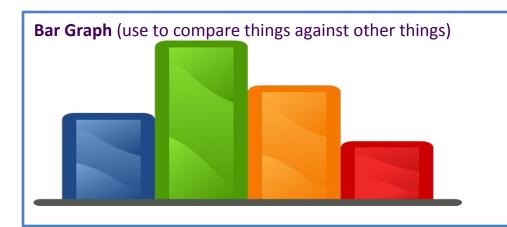
# EDZUKATION

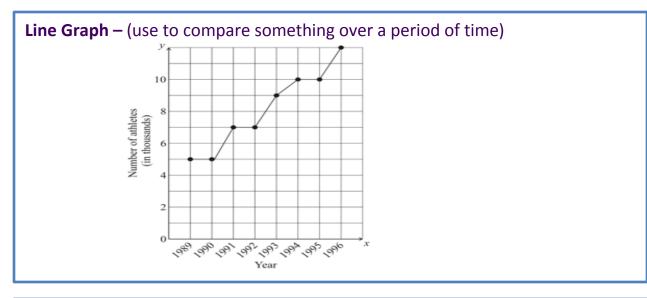
"It's a ZOO in education"

# Math CRCT Study Guide: 4th Grade

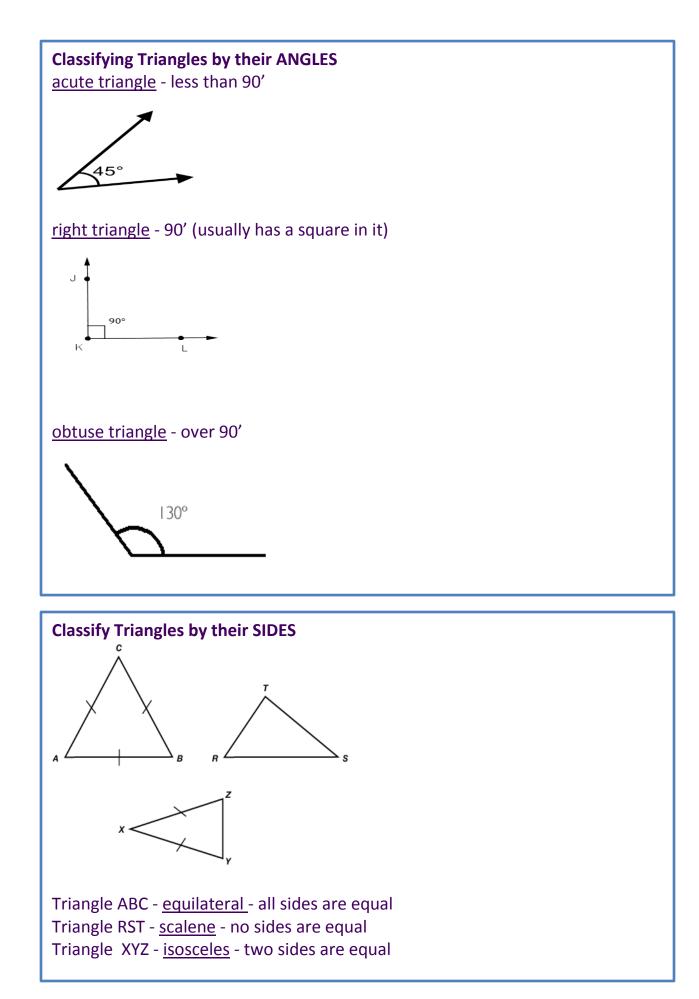
Using symbols for unknown numbers

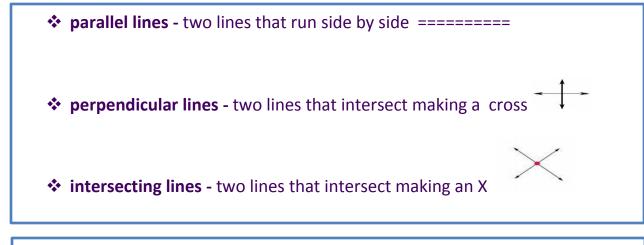
✤ ? x 8 = ?
✤ ? = 7
✤ 7 x 8 = 56

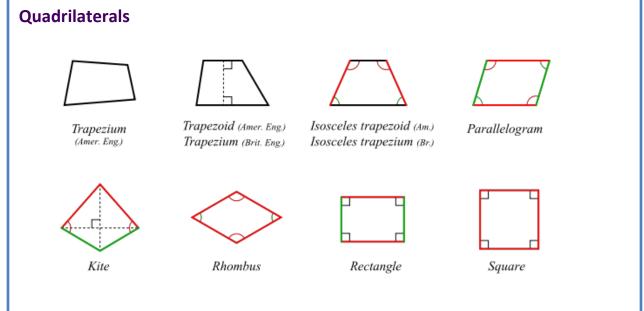


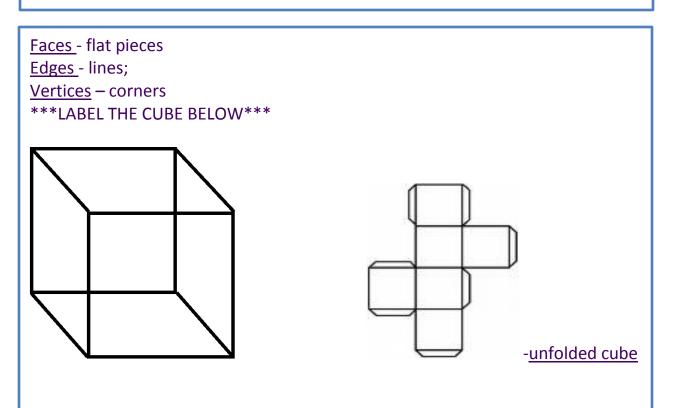


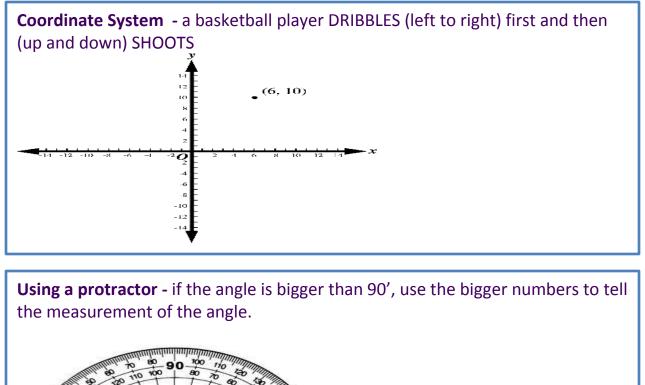
Pictographs – (use when adding pictures to show data)					
	Week	Number of Flights			
	Week 1	* * * * * * * * * * * *			
	Week 2	******			
	Week 3	オオオオ			
	Week 4	オオオオ			
	Week 5	オオ			
	*	= 5 Flights			











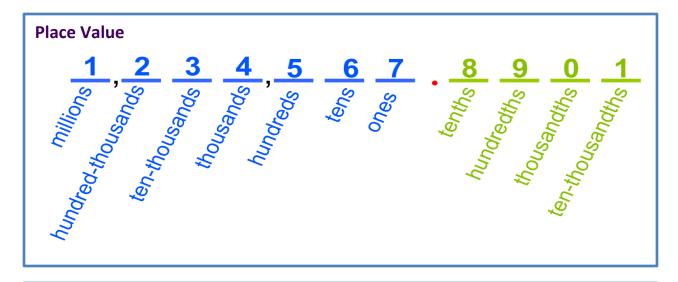


- ✤ Half of a rotation is 180' (1/2 a circle)
- ✤ A full rotation is 360' (a full circle)
- ✤ a 90' rotation is ¼ it takes 4(90') to make one circle

Weight - how heavy something is

✤ 16 ounces (oz) = 1 pound (lb)

- 3lbs = 48 oz
- 33 oz = 2 lbs 1 oz
- ✤ 2,000 lbs = 1 ton (T)
  - 7,000lbs = 3 ½ T
  - 8 T = 16,000 lbs
- 1,000 grams (g) = 1 kilogram (kg)
  - $\circ$  5,500 g = 5 ½ kg
  - $\circ$  6 kg = 6,000 g



Three ways to describe a number <u>standard form:</u> 7, 526 <u>word form:</u> seven thousand, five-hundred, twenty-six <u>expanded form:</u> 7000 + 500 + 20 + 6

# **Rounding/estimating numbers**

- If the digit after the one being rounded is less than 5 (0, 1, 2, 3 or 4), we round down.
- If the digit after the one being rounded is 5 or more (5, 6, 7, 8, or 9), we round up.
  - $\circ$  round to the nearest thousand: 5,633 = 6,000
  - $\circ$  round to the nearest hundred: 4,311 = 4,300
  - $\circ$  round to the nearest ten: 7,344 = 7,340

# Multiplication steps for: <u>628 x 7</u>

"7 times 8 is 56." Write 6, carry 5. "7 times 2 is 14, plus 5 is 19." Write 9, carry 1. "7 times 6 is 42, plus 1 is 43." Write 43  $\begin{array}{r}
15\\
628 = 6 \text{ hundreds} + 2 \text{ tens} + 8 \text{ ones} \\
\frac{\times 7}{4396} & \frac{\times 7}{56} \text{ ones} \\
14 \text{ tens} \\
\frac{42}{4396} & \text{hundreds} \\
\end{array}$ 

# **Division steps for:** <u>1,798/5</u>

- Begin, "5 goes into 17 three (3) times (15) with 2 left over."
- Write 3 over the 7 (not over the 1), and write the remainder 2 next to the 9.
- Continue: "5 goes into 29 five (5) times (25) with 4 left over.
- Write 5 over the 9, and write the remainder 4 next to the 8.
- Finally, "5 goes into 48 nine (9) times (45) with 3 left over."
- Write 9 over the 8. The final remainder is 3.

# Decimals

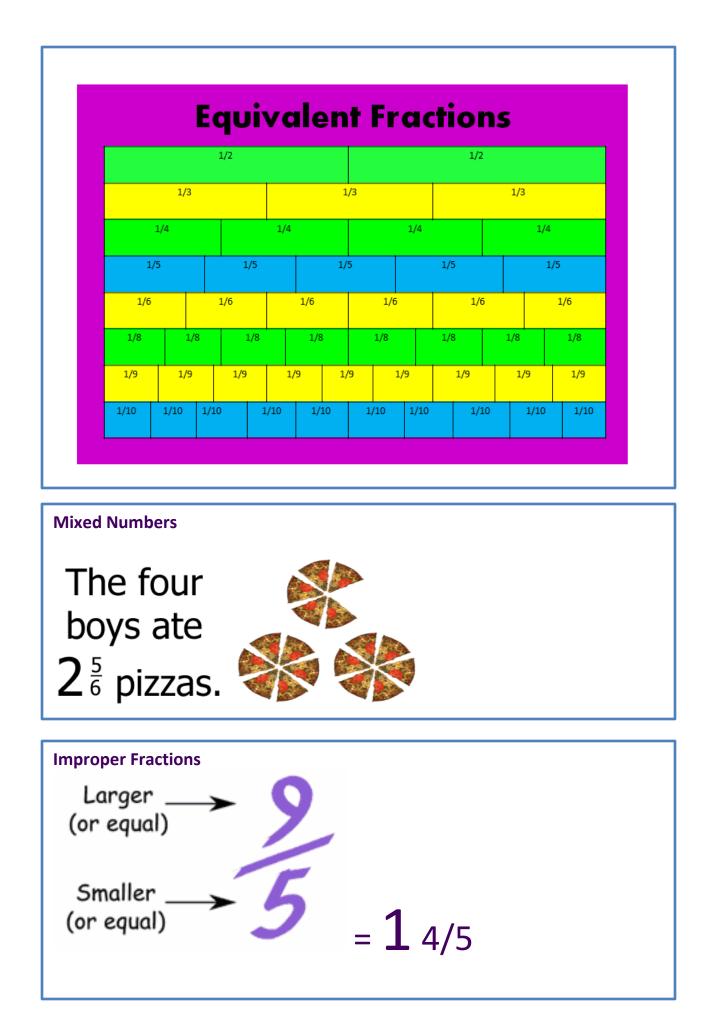
Iine up your decimals when adding/subtraction

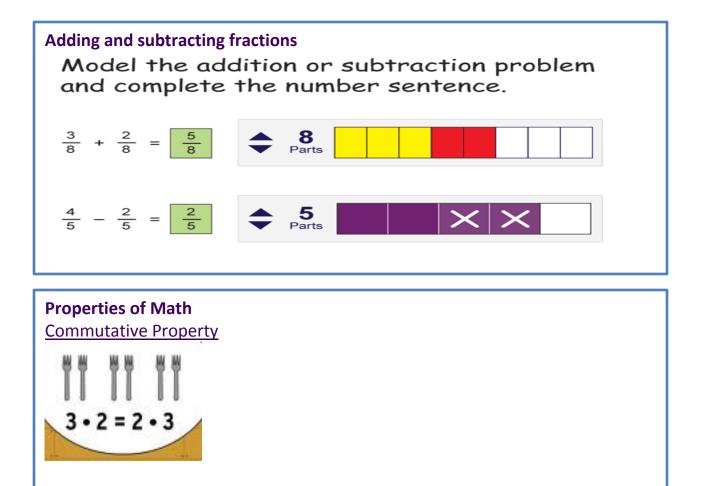
	9	5	.45	
	8	9	.82	
1	8	5	.27	

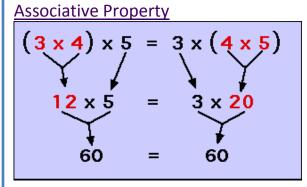
Move the decimal over in the final answer when multiplying/dividing
6.28
× 2 5 <b>.7</b>
4396
3140
1 <u>256</u>
161.396

# Fractions

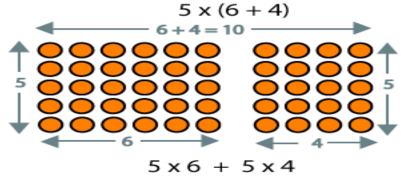
- <u>equivalent fractions</u>: they equal the same
  - $\circ$  1/2 (multiply the top AND bottom by any number I chose 3)= 3/6
  - 2/3 (multiply the top AND bottom by any number I chose 4)=
     8/12





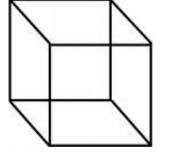


**Distributive Property** 



<b>Practice Problems</b> 1) There are 366 dimp	les on a golf ball. Hov	w many dimples are on 27 golf balls?			
2) The company took 59 employees to a management conference across the country. Each round trip plane ticket cost \$799. What was the total amount needed to take the employees to the conference?					
3) 654/3	4) 344/9	5) 722/4			
Round to the nearest t	housand				
3,554	6,999	3,422			
Round to the nearest hundred					
8,234	5,606	9,999			
Round to the nearest hundredths					
45.89	377.987	340.32			

Identify the # of: faces	; edges	; vertices	



<u>Greater than (&gt;), less than (&lt;), or equal (=)</u>					
4/8 3/6	54.45 45.54	788.55 99.999			
2/3 7/8	centimeterinches	feetyards			

Convert 8 tons =	lbs	т	36 in =	_ft
6ft =ir	n 48hrs = dys	5	120 min =	hrs