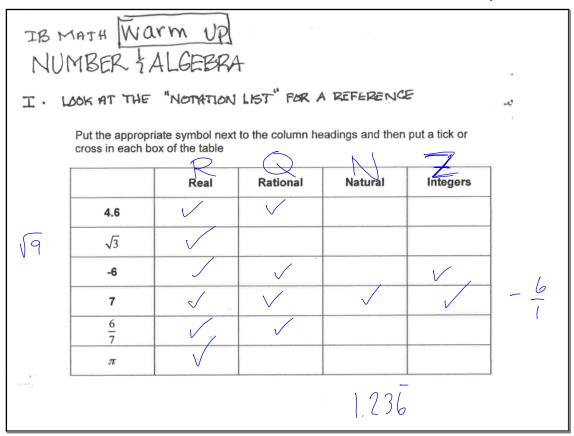
There are many small isolated topics that are in the IB Math Curriculum. Those will be handled during warm ups.

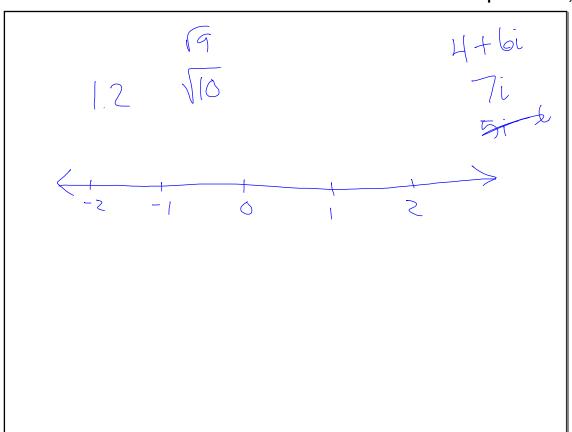
Pick up the Warm Up (but skip **T**)

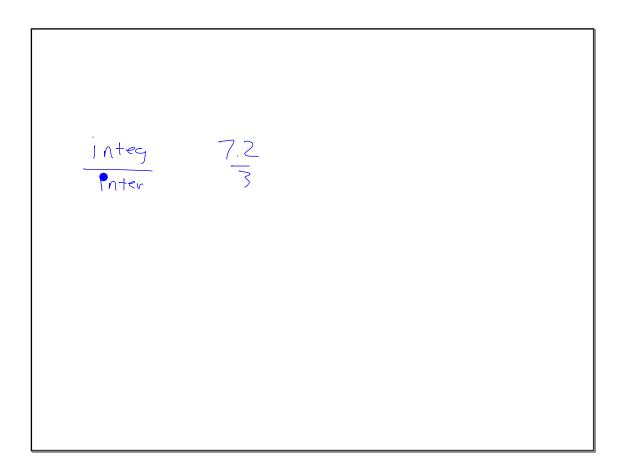
(You'll need the PPnK) Notation List

IB M NUI	MBER 1	rm up Algebra	r.			
I. U	OOK AT THE	"NOTATION	LIST" FOR A	A REFERENC	E	al.
ï	Put the appropr cross in each bo	iate symbol next ox of the table	to the column he	eadings and then	put a tick or	,
		Real	Rational	Natural	Integers	
	4.6					
	$\sqrt{3}$					
	-6					
	7					
-	$\frac{6}{7}$	e -				
	$\pi$					



4.6 46

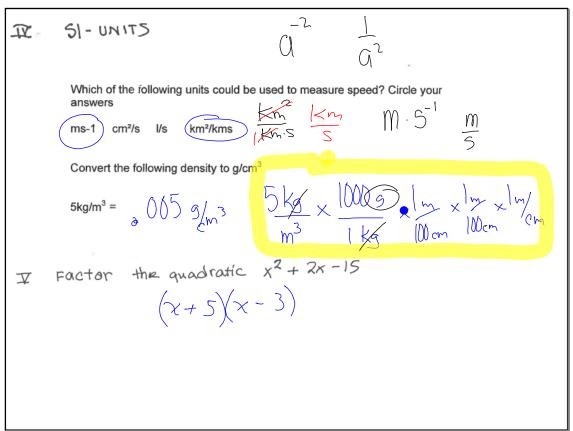


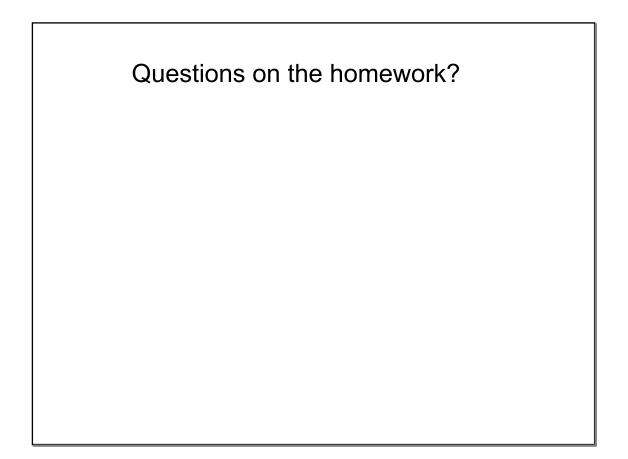


## September 22, 2017

<b>H</b> .	PERCENTAGE ERRORS (see the class Formula sheet) Consider the following expression $b = \frac{15\sin 40}{\sin 60}$
	Calculate sin 40 and sin 60 giving your answers correct to 3 significant figures and use these answers to calculate the value of b to 3 decimal places
	$\sin 40 = 643 \sin 60 = 866 b = 1,137$
	Now calculate the value of b without rounding either sin 40 or sin 60 giving your answer correct to 3 decimal places
	b= 11.133 exact approx
	Now calculate the percentage error in your first answer for b
	% error = $\left  \frac{11.137 - 11.133}{11.133} \right  \times 100 = 0.0359^{\circ/\circ}$

Ш.	STANDARD INDEX FORM (Scientific Notation)
	If $a = 3.2 \times 10^{2}$ and $b = 4.7 \times 10^{-4}$ then please calculate, giving your answers in standard form $ab = 1,50 \times 10^{-6}$ $b/a = 1,47 \times 10^{-6}$ $a + b = 3,20 \times 10^{-7}$
	3.2e2*4.7e <sup>-</sup> 4 .1504





$$P = 307 - b = h = 70 = -4$$

$$P = (68 \le x \le 72) = -4$$

$$P = (68 \le x \le 72) = -4$$

$$P = (-4) = -4$$

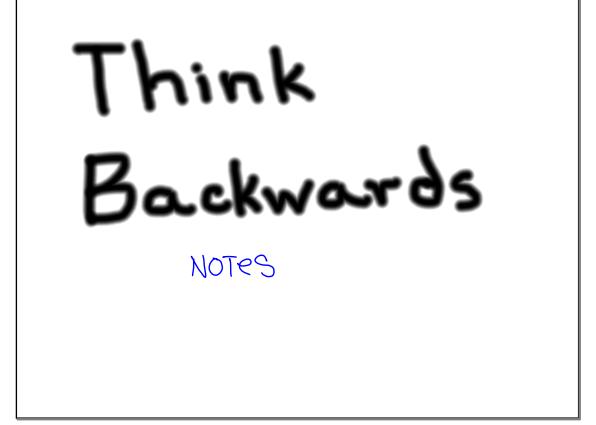
$$P = (-4) = -4$$

$$P = (-4) = -4$$

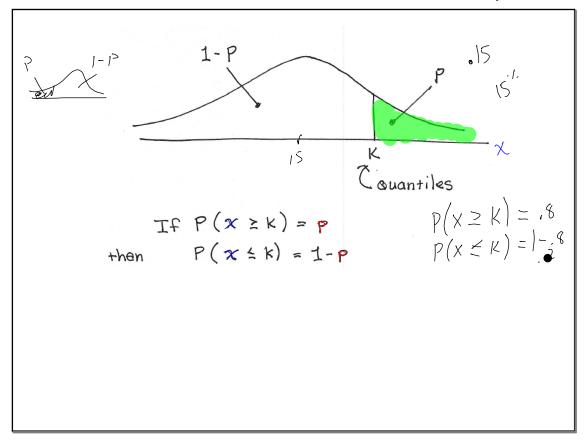
$$p = 307 \cdot .7b \qquad \mu = 40 \quad r = 6$$
(b)  
In 52 weeks, how many would we  
expect to collect at least # 45?  
 $\rightarrow P(\chi > 45) = .20232 \cdot 20.2^{11}$   
 $\rightarrow 20.2^{11} \text{ of } 52 = 10.1 \text{ weeks}$ 

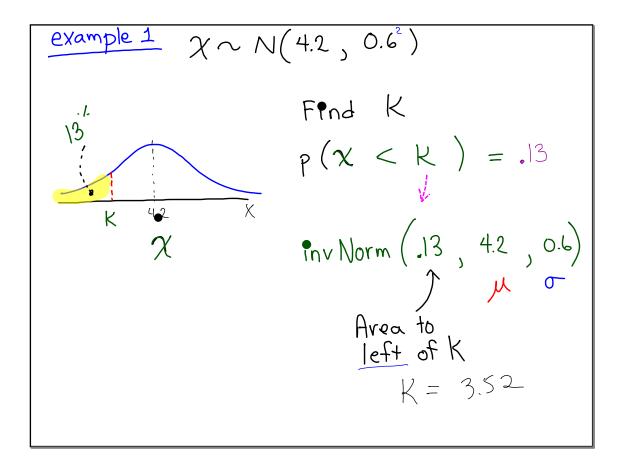
$$\begin{array}{c} \underline{Arswers to HW} \\ \hline p.303... \\ 5 a) 459 b) 446 \\ \underline{abres} \\ 6 a i 34.1 \\ ii 47.7 \\ b i .136 \\ \hline 1i .159 \\ \hline 1i .0228 \\ \hline iv . 841 \\ \end{array}$$

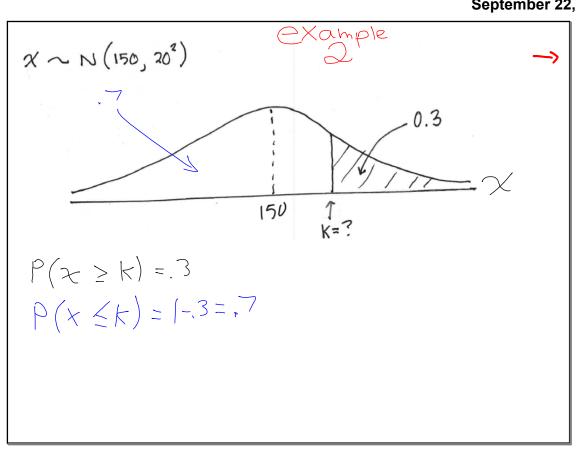
$$\begin{array}{c} (9.307) \\ (1) \\ (2) \\ (2) \\ (3) \\ (2) \\ (3) \\ ($$

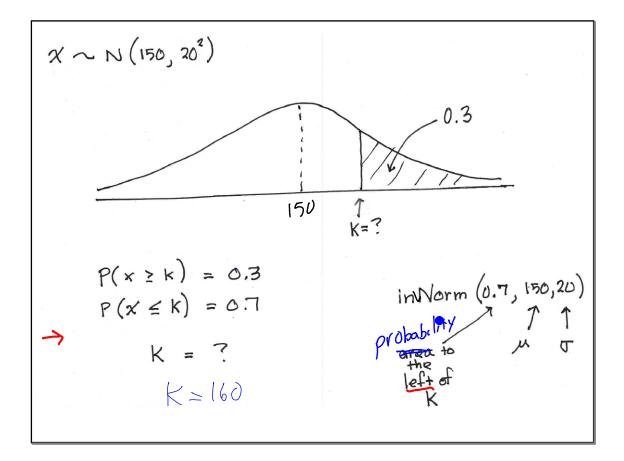


Quantile









example Suppose  $X \sim N(20,3^2)$ Illustrate with a sketch 348 and find K a)  $P(X \le k) = .348$ 20 b)  $P(x \in \mathbb{R}) = 0.9$ c)  $P(X \ge K) = 0.8$ 

