







Step 2

• Draw a dot at the center of the page

STEP 3 • Starting at the top left-hand corner of the page, draw a straight line through the dot finishing at the bottom right-hand corner.









EXAM	2	RESULTS
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• Grades on exam papers are raw scores, exams were curved 4 points.

Exam 2 Stats (After 4 poi	nt curve applied)
Min	20
Median	60
Average	60.35
Max	100
Std Dev	15.87

EXAM 2 GRADE BREAKDOWN

A (90-100)103.6%A (90-100)93.3%A (85-89)93.3%B (80-84)134.7%B (75-79)165.8%B (70-74)3412.3%C + (65-69)248.7%C (60-64)3914.1%C - (55-59)3412.3%D (50-54)3312%F (below 50)6423.2%	Letter Grade	Number Earning that grade	Percent of class earning that grade
A- (85-89)93.3%B+ (80-84)134.7%B (75-79)165.8%B- (70-74)3412.3%C+ (65-69)248.7%C (60-64)3914.1%C- (55-59)3412.3%D (50-54)3312%F (below 50)6423.2%	A (90-100)	10	3.6%
B+ (80-84)134.7%B (75-79)165.8%B- (70-74)3412.3%C+ (65-69)248.7%C (60-64)3914.1%C- (55-59)3412.3%D (50-54)3312%F (below 50)6423.2%	A- (85-89)	9	3.3%
B (75-79)165.8%B- (70-74)3412.3%C+ (65-69)248.7%C (60-64)3914.1%C- (55-59)3412.3%D (50-54)3312%F (below 50)6423.2%	B+ (80-84)	13	4.7%
B- (70-74) 34 12.3% C+ (65-69) 24 8.7% C (60-64) 39 14.1% C- (55-59) 34 12.3% D (50-54) 33 12% F (below 50) 64 23.2%	B (75-79)	16	5.8%
C+ (65-69) 24 8.7% C (60-64) 39 14.1% C- (55-59) 34 12.3% D (50-54) 33 12% F (below 50) 64 23.2%	B- (70-74)	34	12.3%
C (60-64) 39 14.1% C- (55-59) 34 12.3% D (50-54) 33 12% F (below 50) 64 23.2%	C+ (65-69)	24	8.7%
C- (55-59) 34 12.3% D (50-54) 33 12% F (below 50) 64 23.2%	C (60-64)	39	14.1%
D (50-54) 33 12% F (below 50) 64 23.2%	C- (55-59)	34	12.3%
F (below 50) 64 23.2%	D (50-54)	33	12%
	F (below 50)	64	23.2%





SPRITES ON A STAGE

- Scratch programs are the actions of Sprites on a Stage. (The stage can have actions too.)
- You can have many sprites on the stage (or just one).
- You can change the image for the background of the stage.
 - You can draw your own
 - You can select an image from the images that come with sprite
 - You can select an image that is stored on the computer.

SPRITE SCRIPTS

- The actions that the sprites perform on put on the Scripts tab.
- You drag the actions over with the mouse.
- Clicking on the script executes it.

MOTION BLOCKS

- Move n steps
- o Turn n degrees
- If on edge, bounce
- Move to a particular x and y position

CONTROL BLOCKS

- "When green flag clicked"
 - A way to get the program to start
- When [stage/sprite] clicked
 - When user of program clicks on something, some action can happen
- When ??? key pressed
 - When user of program hits a particular key, some action can happen

CONTROL BLOCKS

• Forever

• Runs the code in the forever block repeatedly until the stop button is pressed.

• Repeat n times

- Repeats the code in the repeat block n times (n is specified by the programmer).
- Wait
 - Cause the actions in the program to pause for some specified amount of seconds

LOOKS BLOCKS

- Switch costumes
- Say something
- Think something
- Change image effects

BROADCASTS

- Broadcast a message within the program
- Not a "say" the user doesn't see the broadcast, but the sprites and/or stage can pay attention to a broadcast and react to it.

VARIABLES

- Variables are ways for programmers to store information while the program is running.
- We can make a variable on the variable section.
- We give variables a name and then can change their values over the life of the program to store different types of information for us.

CONDITIONALS

- Sometimes in a program, we want to do things only if certain conditions are met.
- If this is the case, we use conditional statements in our scripts.
- In the control statements, there are if and if-else blocks.

IF VERSUS IF-ELSE $% \left[{{\left[{{{\left[{{E_{\rm{T}}} \right]}} \right]}} \right]} \right]$

- If blocks are used when you want something to happen if a condition is met and nothing to happen if it is not met.
- If-else blocks are used when you want something to happen if a condition is met and something else to happen if a condition is not met.





RANDOM

• Under the operators, there is also a way to get a random number.