

# Decision and variables practical



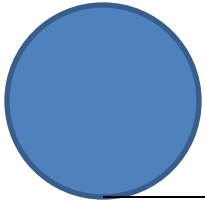
# Back to high school physics



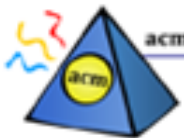
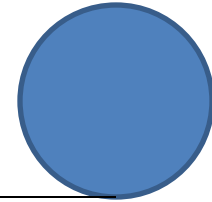
- A particle has initial velocity and constant acceleration. If its velocity after certain time is  $v$  then what will its displacement be in twice of that time?



$v_i$   $t_i$



$v_f$   $t_f$



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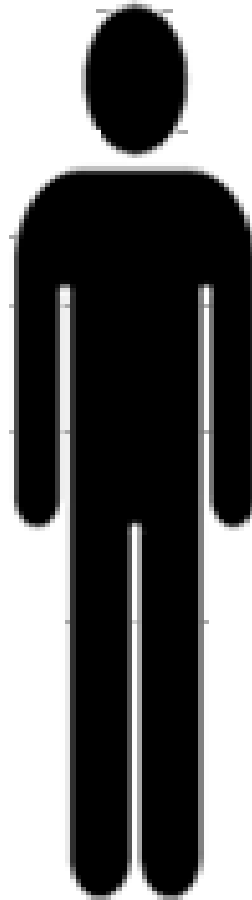
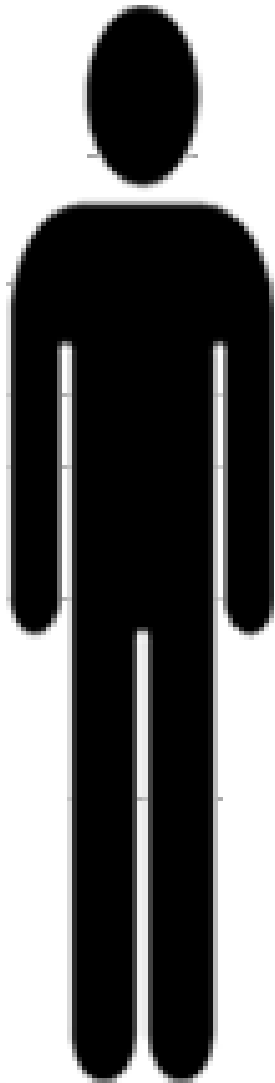
# Motion equation

$$S = vt$$

# Relational Operator

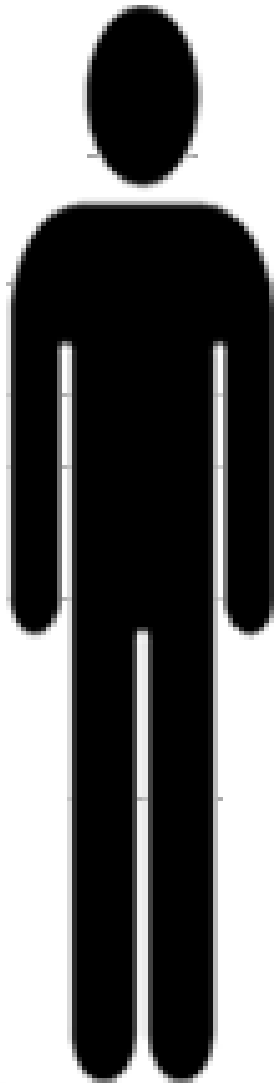
- Some operators checks about the relationship between two values and these operators are called relational operators. Given two numerical values your job is just to find out the relationship between them that is (i) First one is greater than the second (ii) First one is less than the second or (iii) First and second one is equal.

# What is the relation between them ?

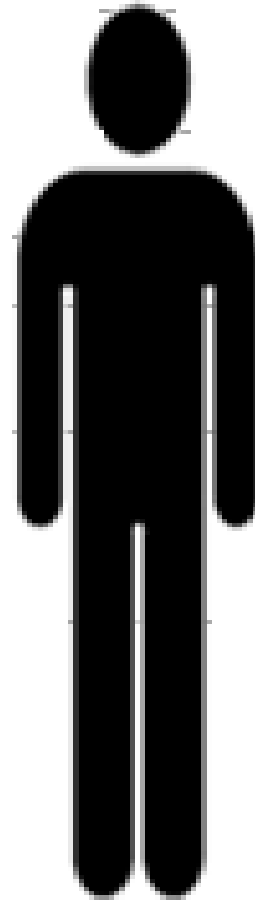




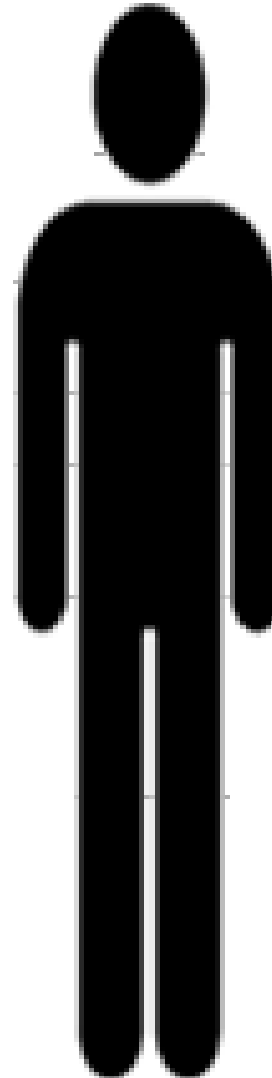
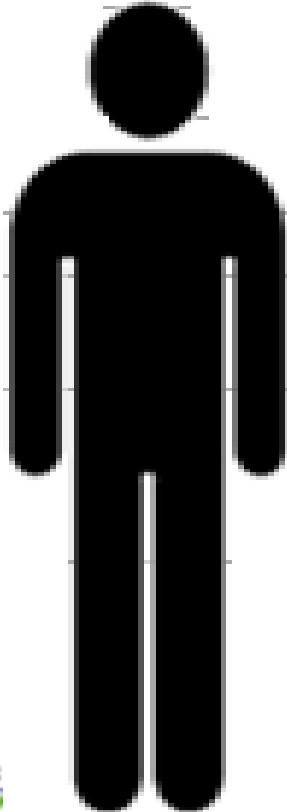
# Greater than



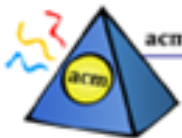
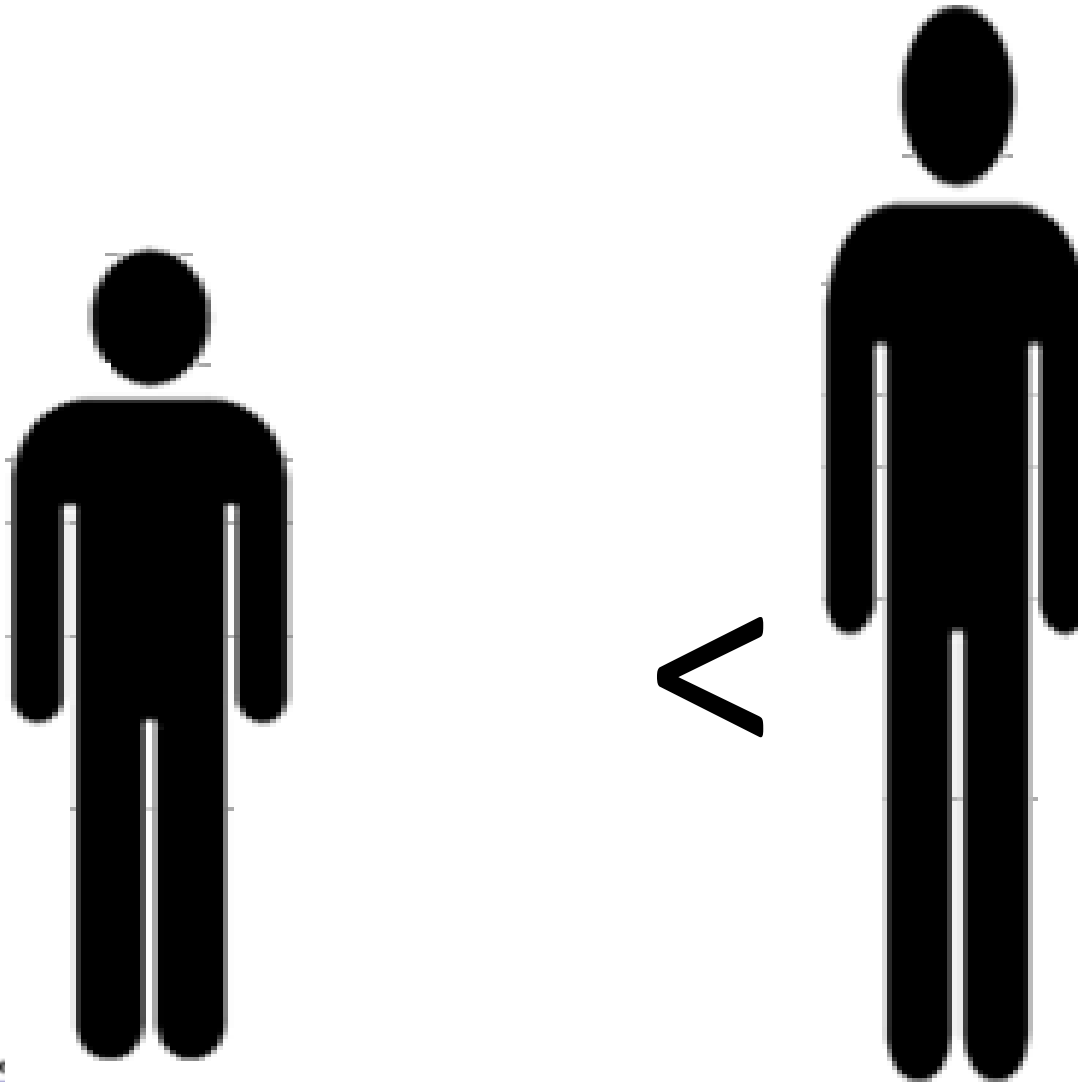
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# And then ?



# Smaller than

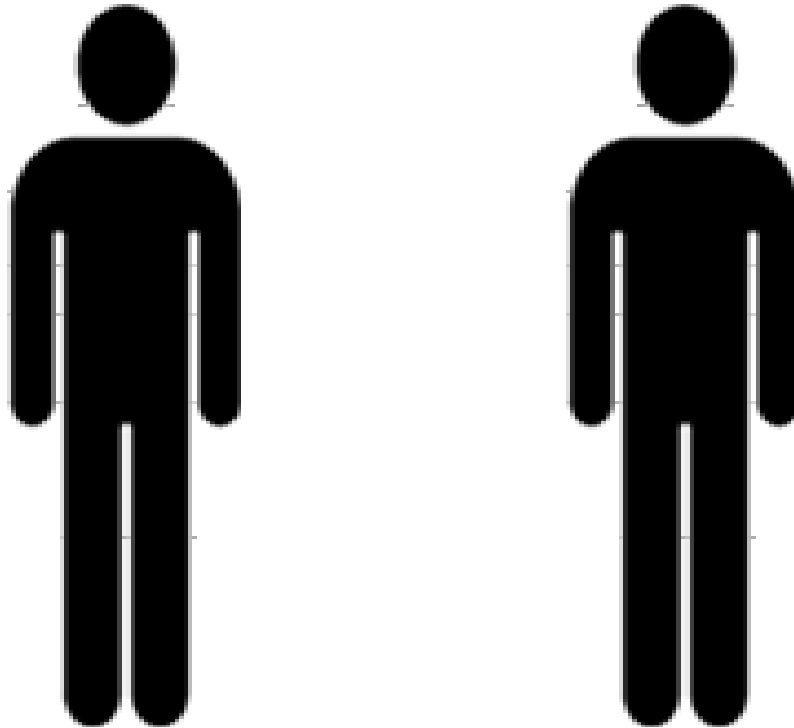


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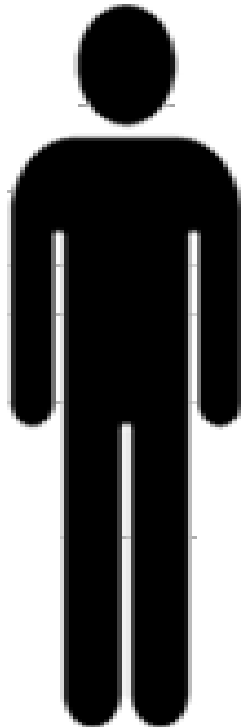
# And then ?



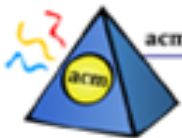
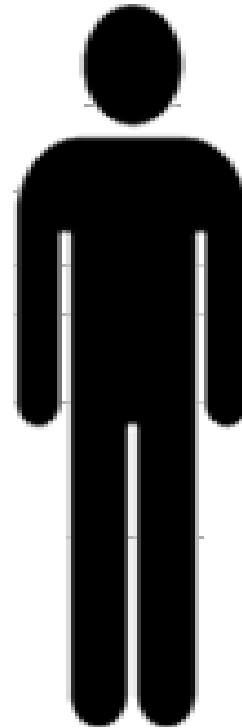
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# Equal



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# Cost Cutting



- A company has got three (3) employees working in the accounts department and are going to lay-off two (2) of them. After a series of meetings, they have decided to dislodge the person who gets the most salary and the one who gets the least. This is usually the general trend during crisis like this.

1000 \$      2000\$      3000\$

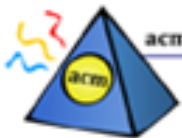






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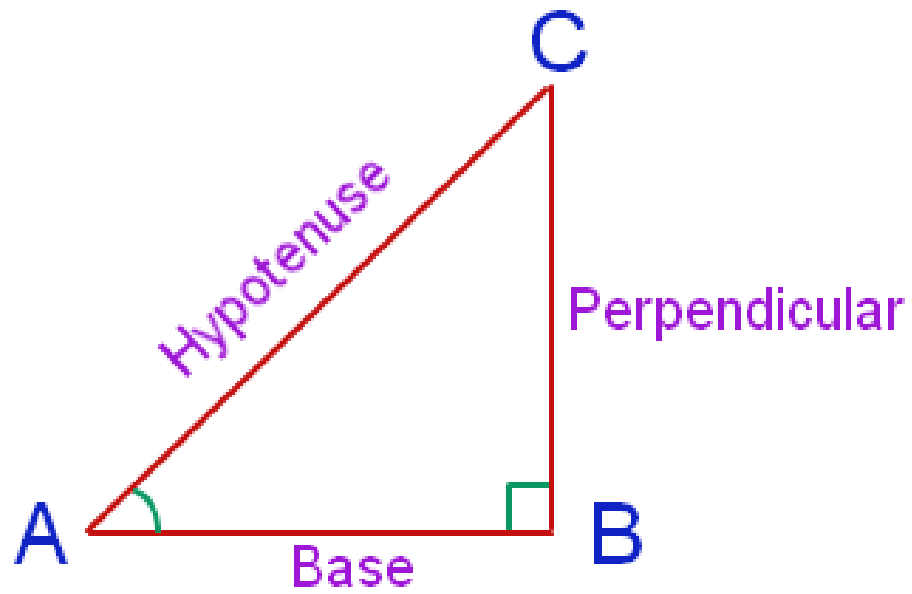
# Egypt



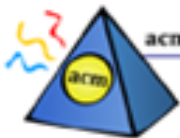
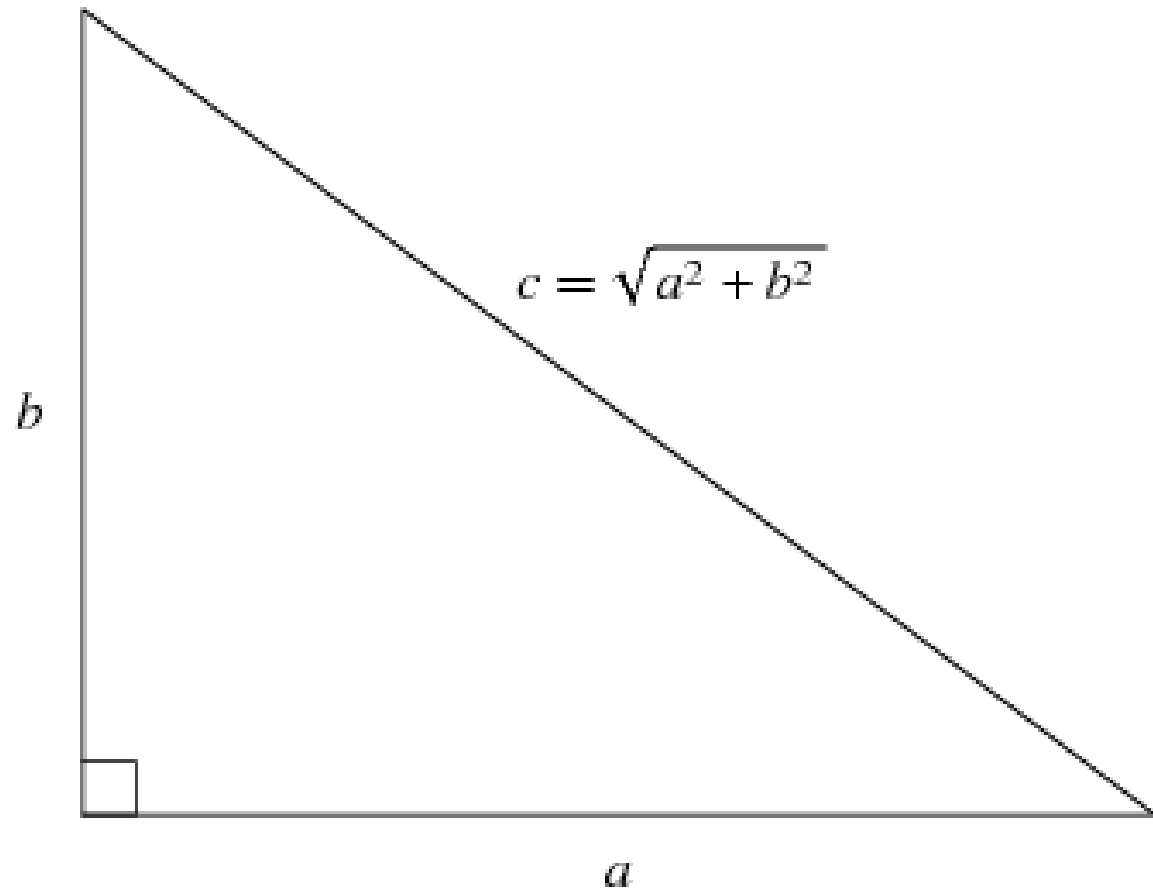
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- A long time ago, the Egyptians figured out that a triangle with sides of length 3, 4, and 5 had a right angle as its largest angle. You must determine if other triangles have a similar property.
- a line containing "right" if the triangle is a right triangle, and a line containing "wrong" if the triangle is not a right triangle.



# Pythagoras theorem



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# Automatic answer

- Last month Alice nonchalantly entered her name in a draw for a Tapmaster 4000. Upon checking her mail today, she found a letter that read: “Congratulations, Alice! You have won a Tapmaster 4000. To claim your prize, you must answer the following skill testing question.”
- Can you help Alice win the Tapmaster 4000 by solving the skill testing question?





- The question is :  
“Multiply  $n$  by 567, then divide the result by 9, then add 7492, then multiply by 235, then divide by 47, then subtract 498. What is the digit in the tens column?”

# How to get the digit in the tenth column in a number ?!!!

Example : 234 -> 3  
          : 54465 -> 6

234

$234 / 10 =$

23, remainder : 4

$23 / 10 =$

2, remainder : 3 -> that's it ;)

# Thanks

