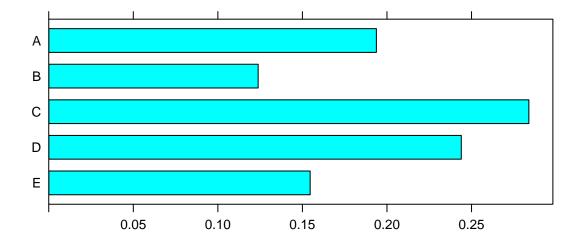
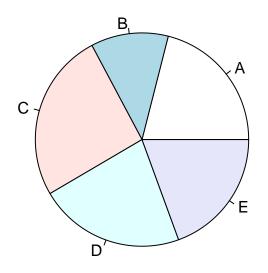
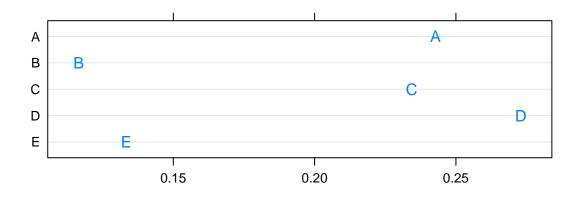
We're going to talk today about Cleveland's work on graphical perception.



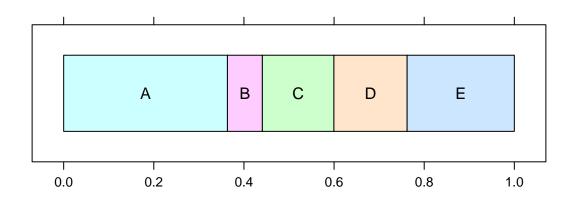
1. I estimate that E is _____% of A.



2. I estimate that D is _____% of C.



3. I estimate that E is _____% of A.

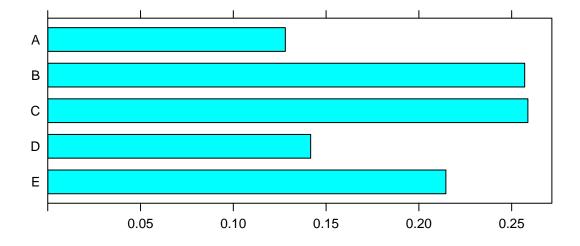


4. I estimate that D is _____% of E.

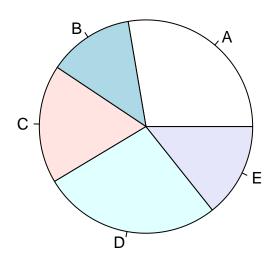
5. I estimate that A is _____% of B.

When you're done, type your answers into my laptop. Your ID is 1.

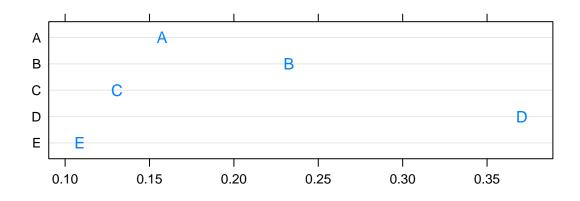
We're going to talk today about Cleveland's work on graphical perception.



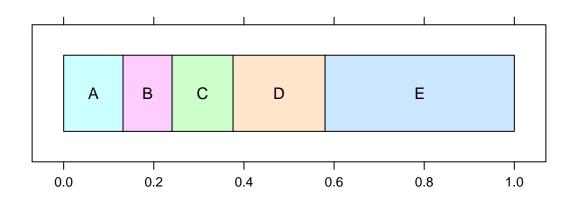
1. I estimate that D is ____% of E.



2. I estimate that E is ____% of C.



3. I estimate that E is _____% of A.

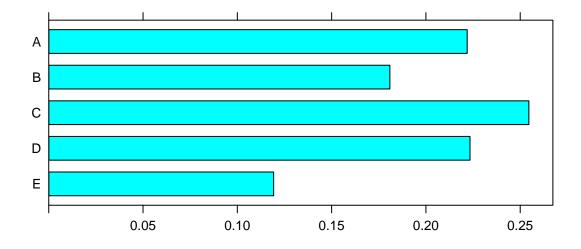


4. I estimate that B is _____% of A.

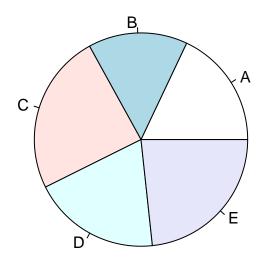
5. I estimate that B is _____% of E.

When you're done, type your answers into my laptop. Your ID is 2.

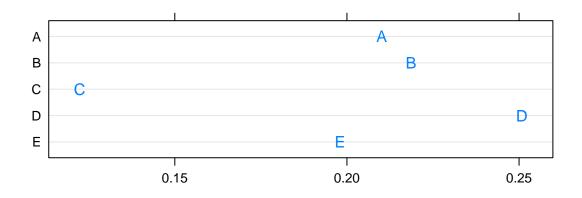
We're going to talk today about Cleveland's work on graphical perception.



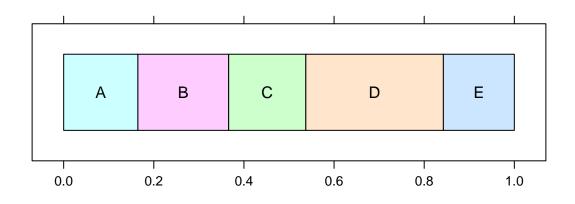
1. I estimate that B is _____% of C.



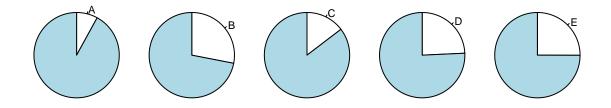
2. I estimate that B is ____% of C.



3. I estimate that B is _____% of D.



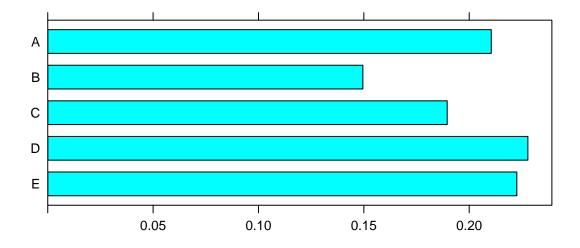
4. I estimate that A is _____% of B.



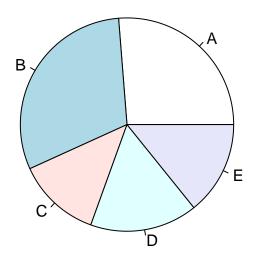
5. I estimate that C is _____% of E.

When you're done, type your answers into my laptop. Your ID is 3.

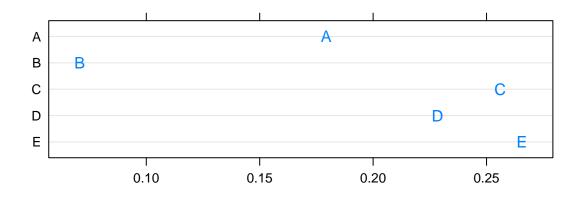
We're going to talk today about Cleveland's work on graphical perception.



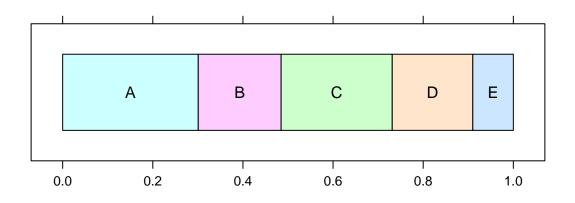
1. I estimate that C is _____% of A.



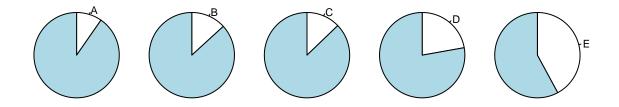
2. I estimate that D is ____% of B.



3. I estimate that D is _____% of E.



4. I estimate that D is _____% of C.

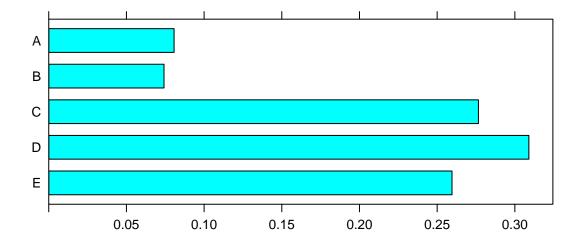


5. I estimate that A is _____% of E.

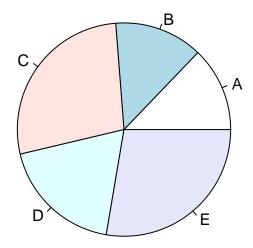
When you're done, type your answers into my laptop. Your ID is 4.

We're going to talk today about Cleveland's work on graphical perception.

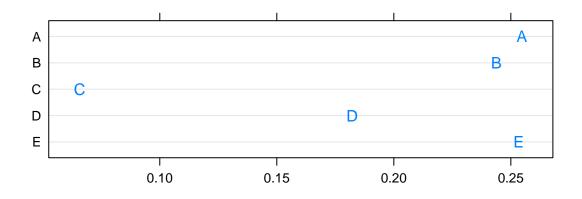
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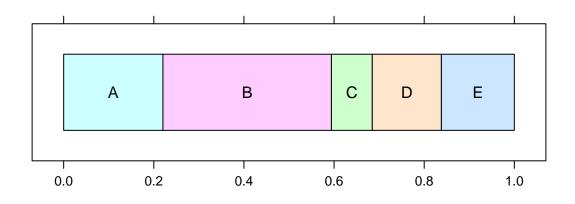
1. I estimate that B is _____% of D.



2. I estimate that A is ____% of E.



3. I estimate that D is _____% of E.

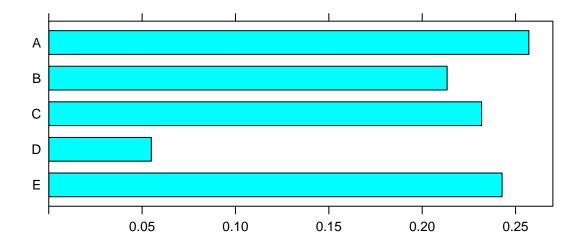


4. I estimate that A is _____% of B.

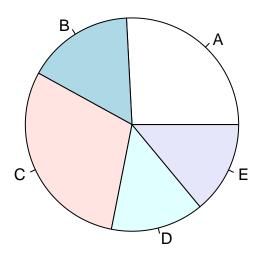
5. I estimate that E is ____% of A.

When you're done, type your answers into my laptop. Your ID is 5.

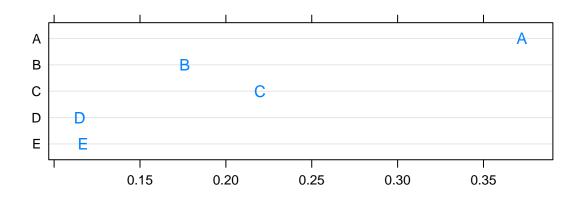
We're going to talk today about Cleveland's work on graphical perception.



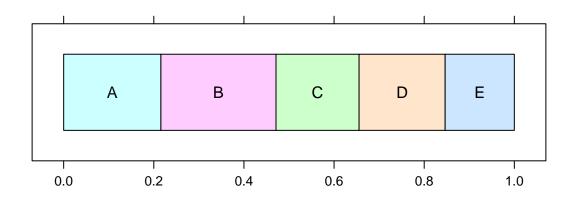
1. I estimate that D is _____% of B.



2. I estimate that A is ____% of C.



3. I estimate that B is _____% of A.

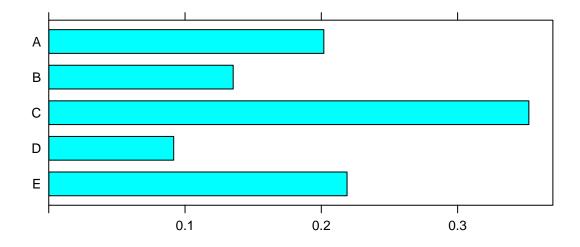


4. I estimate that E is _____% of A.

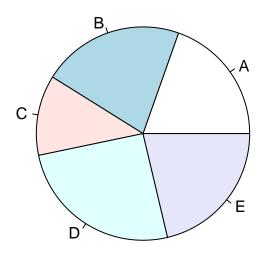
5. I estimate that B is _____% of C.

When you're done, type your answers into my laptop. Your ID is 6.

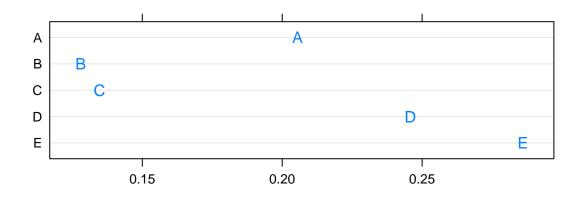
We're going to talk today about Cleveland's work on graphical perception.



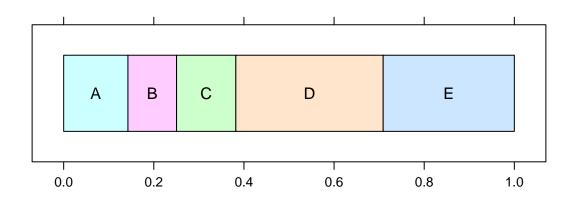
1. I estimate that B is _____% of A.



2. I estimate that E is ____% of B.



3. I estimate that A is _____% of E.



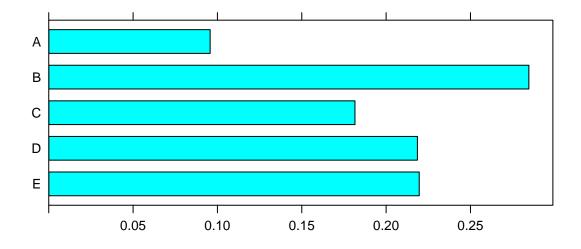
4. I estimate that A is _____% of D.

5. I estimate that B is _____% of A.

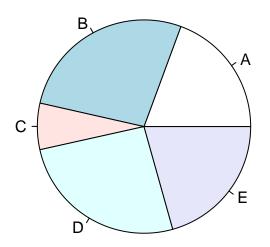
When you're done, type your answers into my laptop. Your ID is 7.

We're going to talk today about Cleveland's work on graphical perception.

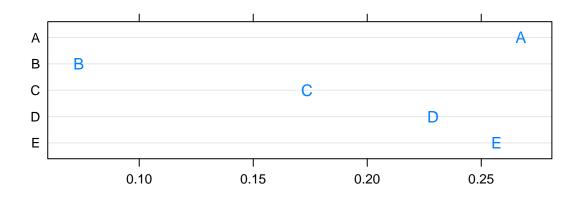
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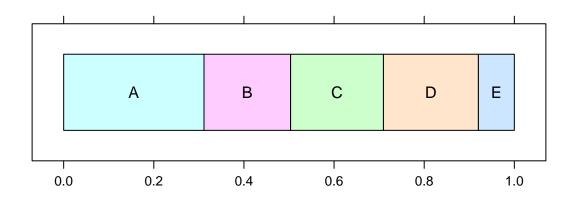
1. I estimate that D is ____% of B.



2. I estimate that E is ____% of D.



3. I estimate that B is _____% of D.

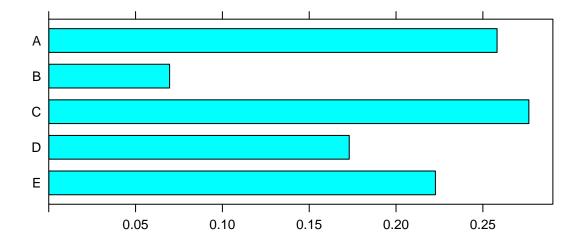


4. I estimate that E is \circlements of C.

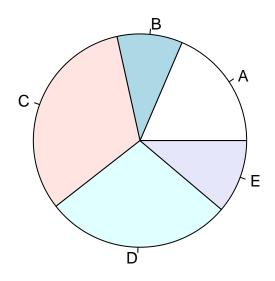
5. I estimate that C is _____% of A.

When you're done, type your answers into my laptop. Your ID is 8.

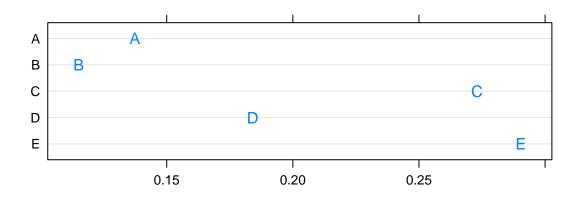
We're going to talk today about Cleveland's work on graphical perception.



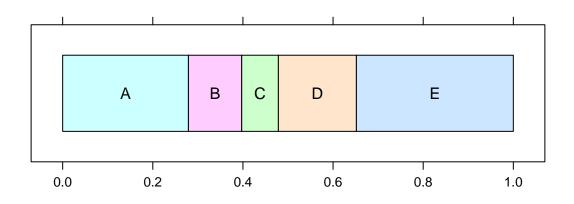
1. I estimate that A is _____% of C.



2. I estimate that B is _____% of D.



3. I estimate that A is _____% of C.



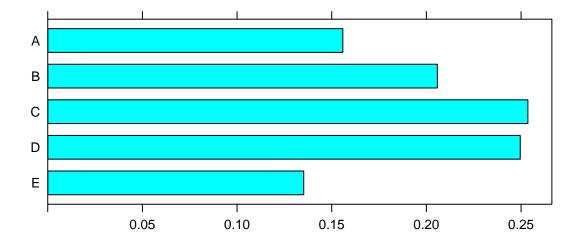
4. I estimate that D is _____% of E.

5. I estimate that C is _____% of A.

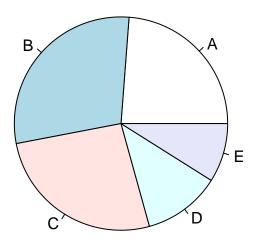
When you're done, type your answers into my laptop. Your ID is 9.

We're going to talk today about Cleveland's work on graphical perception.

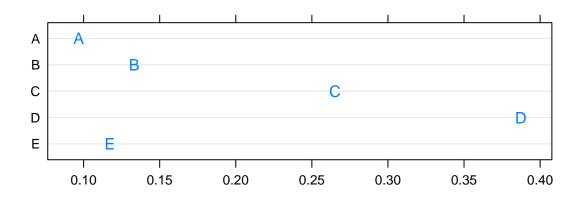
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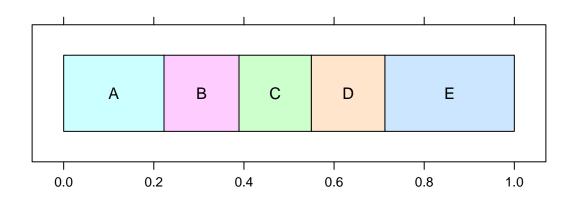
1. I estimate that E is _____% of A.



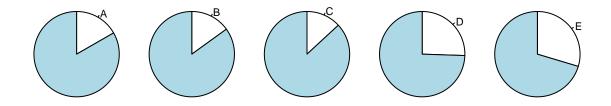
2. I estimate that D is ____% of B.



3. I estimate that B is _____% of C.



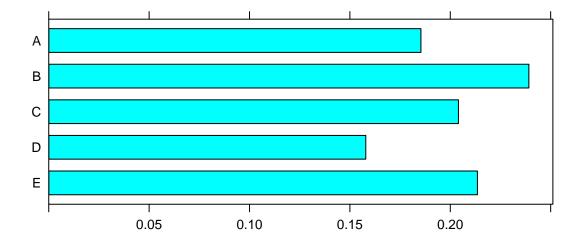
4. I estimate that A is _____% of E.



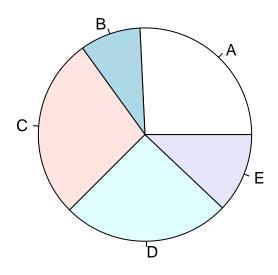
5. I estimate that B is _____% of E.

When you're done, type your answers into my laptop. Your ID is 10.

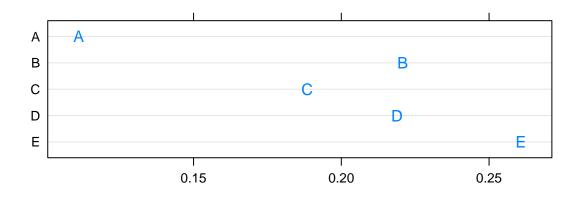
We're going to talk today about Cleveland's work on graphical perception.



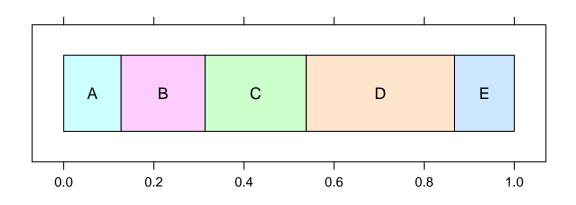
1. I estimate that E is $__{\%}$ of B.



2. I estimate that B is _____% of A.



3. I estimate that B is _____% of E.

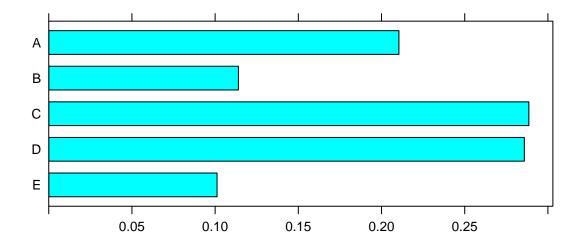


4. I estimate that E is _____% of B.

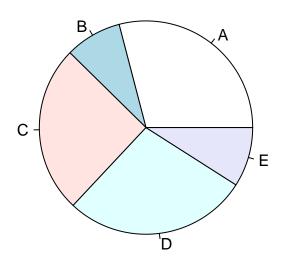
5. I estimate that A is ____% of B.

When you're done, type your answers into my laptop. Your ID is 11.

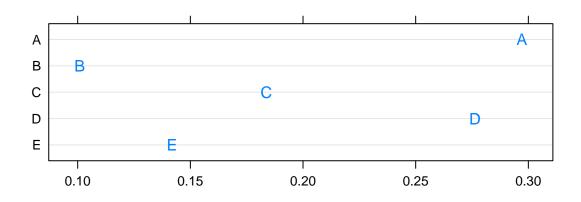
We're going to talk today about Cleveland's work on graphical perception.



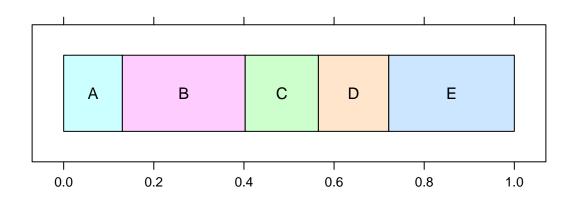
1. I estimate that E is $__{\%}$ of C.



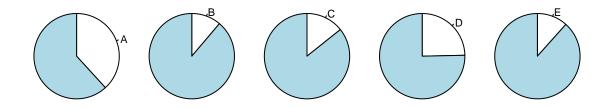
2. I estimate that B is ____% of C.



3. I estimate that D is _____% of A.



4. I estimate that D is _____% of E.

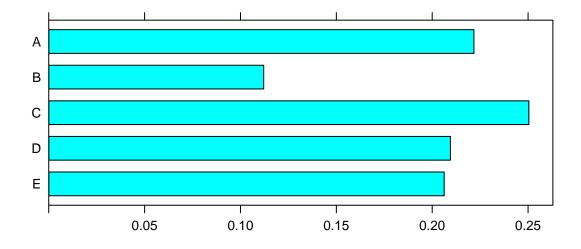


5. I estimate that B is _____% of A.

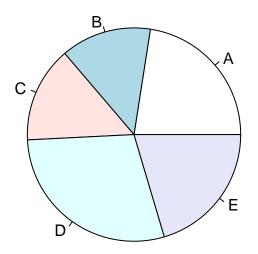
When you're done, type your answers into my laptop. Your ID is 12.

We're going to talk today about Cleveland's work on graphical perception.

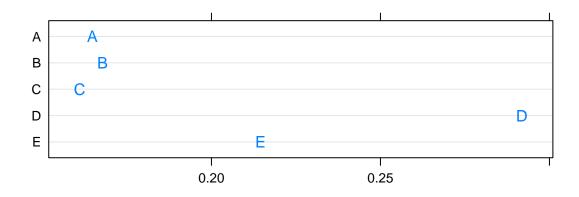
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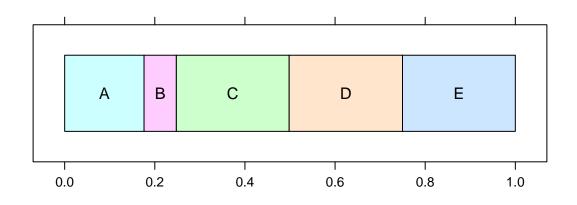
1. I estimate that E is _____% of A.



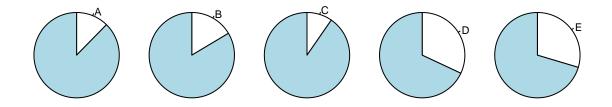
2. I estimate that B is _____% of D.



3. I estimate that B is _____% of D.



4. I estimate that C is _____% of E.

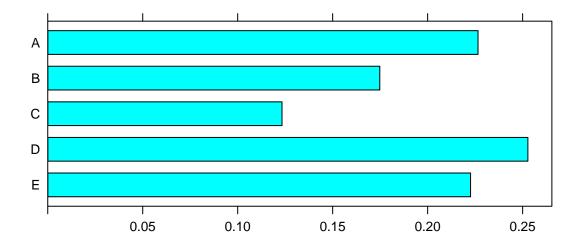


5. I estimate that C is _____% of E.

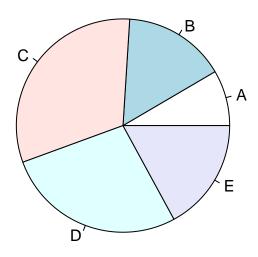
When you're done, type your answers into my laptop. Your ID is 13.

We're going to talk today about Cleveland's work on graphical perception.

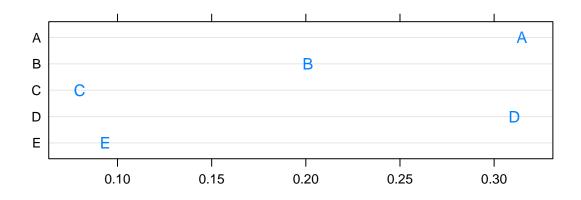
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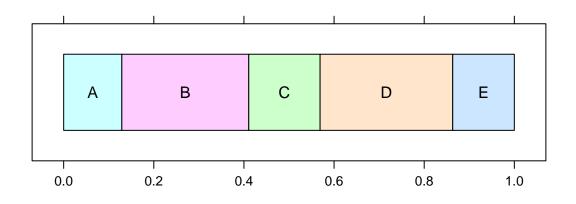
1. I estimate that B is _____% of A.



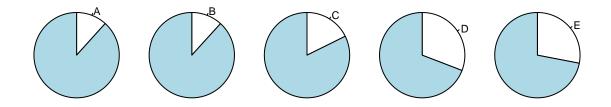
2. I estimate that B is ____% of C.



3. I estimate that C is _____% of E.



4. I estimate that B is _____% of D.

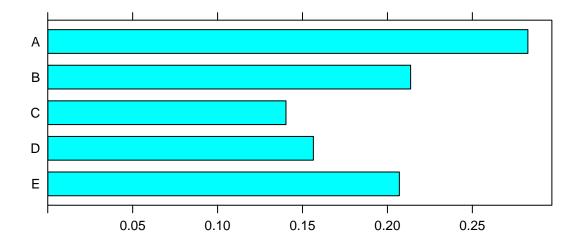


5. I estimate that A is _____% of B.

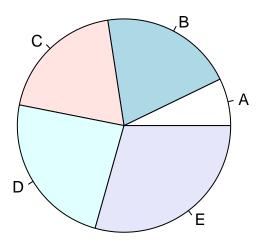
When you're done, type your answers into my laptop. Your ID is 14.

We're going to talk today about Cleveland's work on graphical perception.

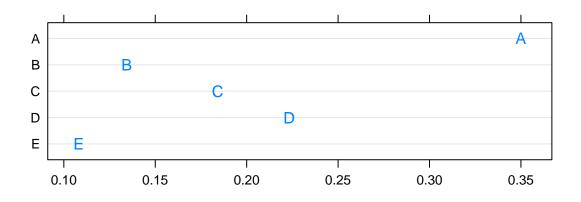
We're going to start by loosely recreating one of his most famous experiments. On the following pages, you'll find a bunch of plots. For each, you are asked to determine the ratio between two things, in terms of a percent. Don't measure or think too hard; this is to meant assess our graphical perception, not how well we measure and do arithmetic.



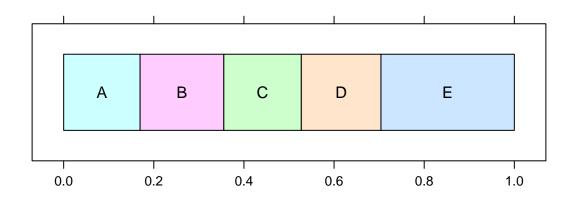
1. I estimate that E is _____% of A.



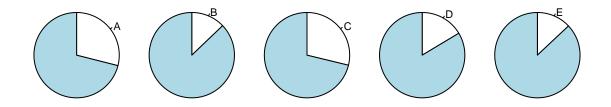
2. I estimate that B is ____% of E.



3. I estimate that E is $\circlessim \%$ of B.



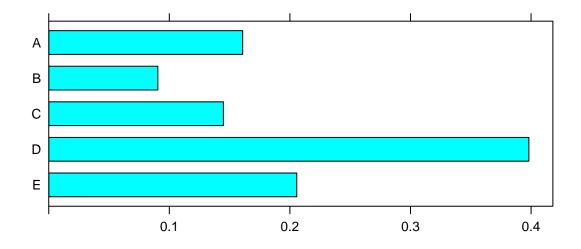
4. I estimate that C is _____% of B.



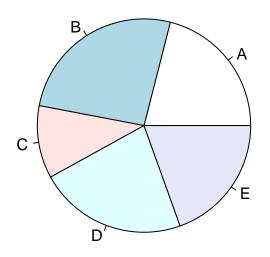
5. I estimate that B is ____% of D.

When you're done, type your answers into my laptop. Your ID is 15.

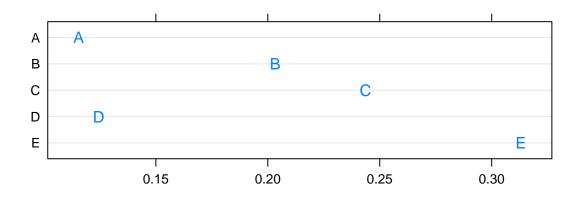
We're going to talk today about Cleveland's work on graphical perception.



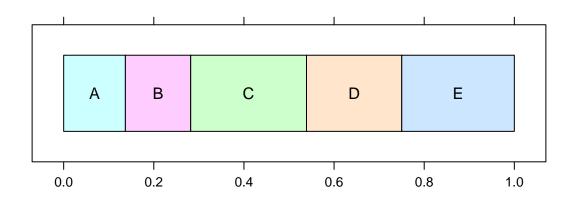
1. I estimate that B is _____% of E.



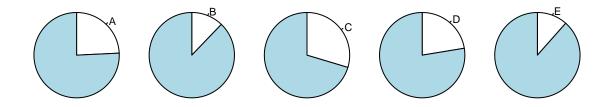
2. I estimate that A is _____% of B.



3. I estimate that C is _____% of E.



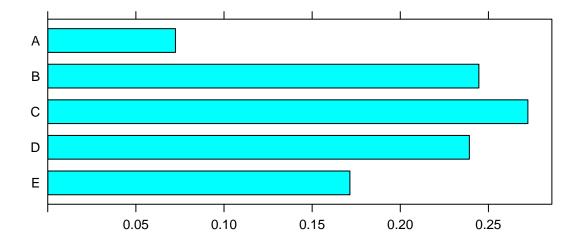
4. I estimate that B is _____% of C.



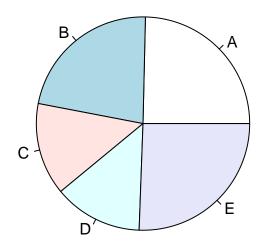
5. I estimate that E is _____% of D.

When you're done, type your answers into my laptop. Your ID is 16.

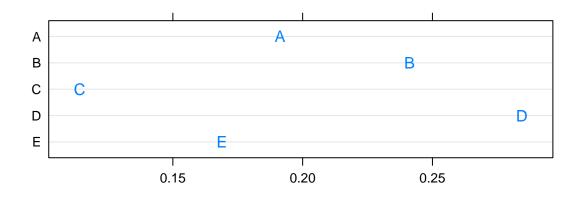
We're going to talk today about Cleveland's work on graphical perception.



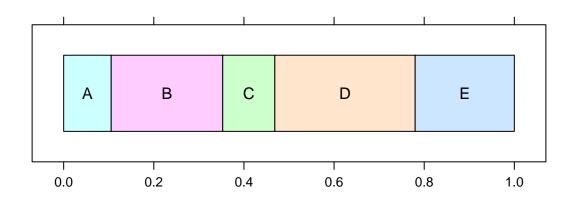
1. I estimate that E is $__{\%}$ of D.



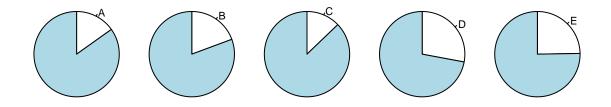
2. I estimate that B is ____% of A.



3. I estimate that E is _____% of B.



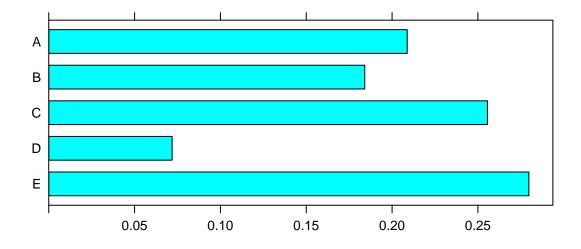
4. I estimate that C is _____% of D.



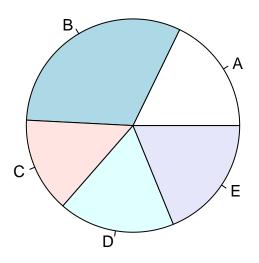
5. I estimate that C is ____% of B.

When you're done, type your answers into my laptop. Your ID is 17.

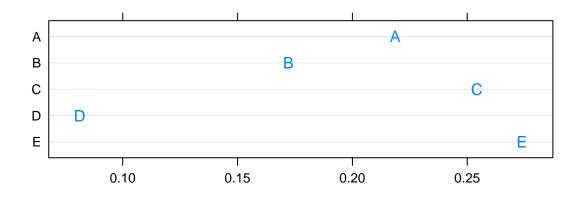
We're going to talk today about Cleveland's work on graphical perception.



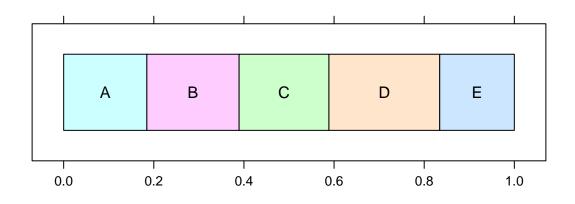
1. I estimate that B is _____% of E.



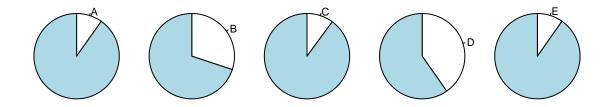
2. I estimate that C is ____% of B.



3. I estimate that D is _____% of A.



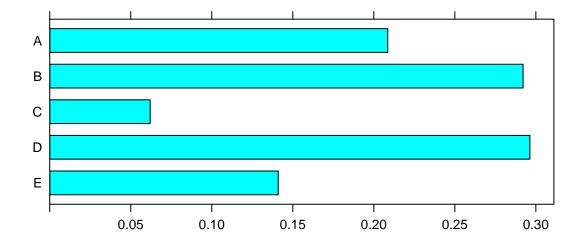
4. I estimate that E is _____% of A.



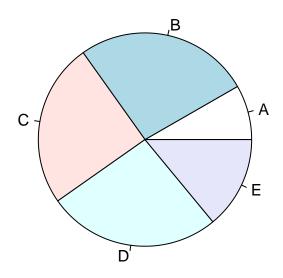
5. I estimate that A is _____% of D.

When you're done, type your answers into my laptop. Your ID is 18.

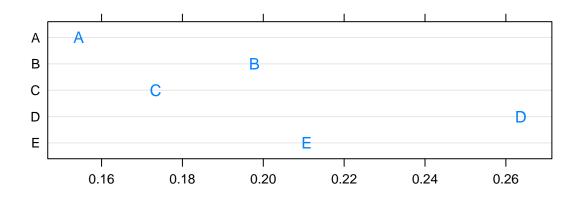
We're going to talk today about Cleveland's work on graphical perception.



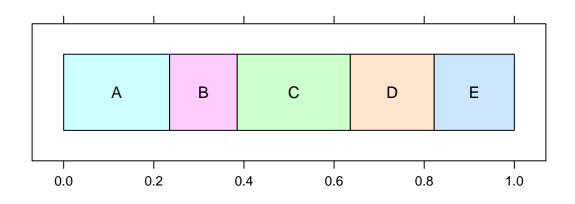
1. I estimate that B is _____% of D.



2. I estimate that C is _____% of B.



3. I estimate that C is _____% of D.

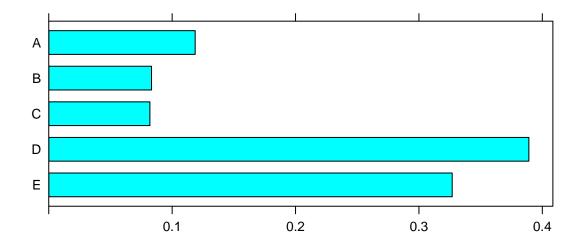


4. I estimate that E is _____% of C.

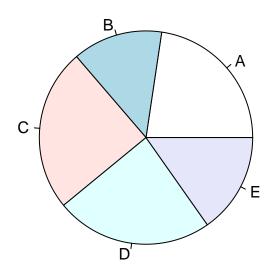
5. I estimate that D is _____% of E.

When you're done, type your answers into my laptop. Your ID is 19.

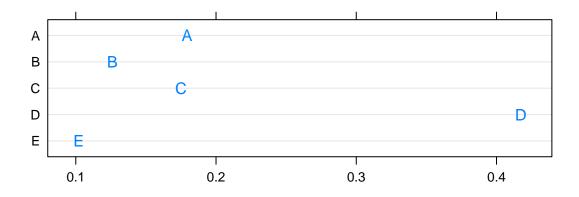
We're going to talk today about Cleveland's work on graphical perception.



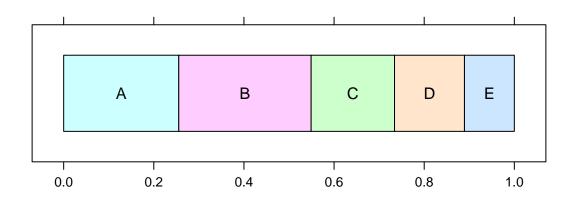
1. I estimate that B is _____% of A.



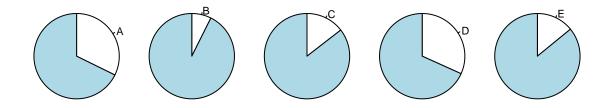
2. I estimate that E is ____% of C.



3. I estimate that A is _____% of D.



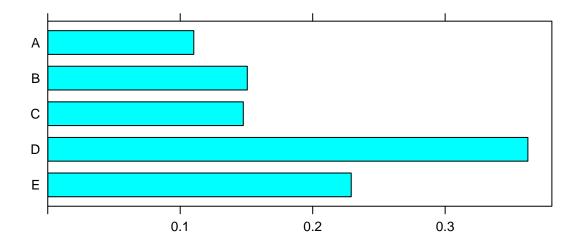
4. I estimate that D is _____% of A.



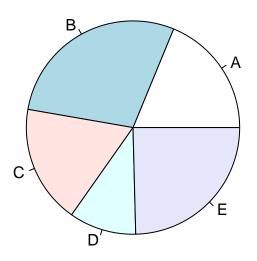
5. I estimate that B is _____% of C.

When you're done, type your answers into my laptop. Your ID is 20.

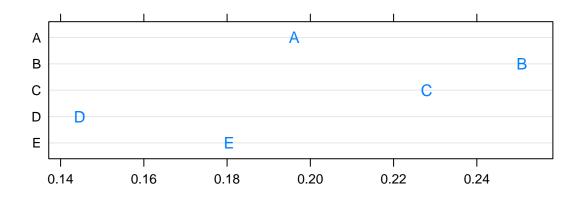
We're going to talk today about Cleveland's work on graphical perception.



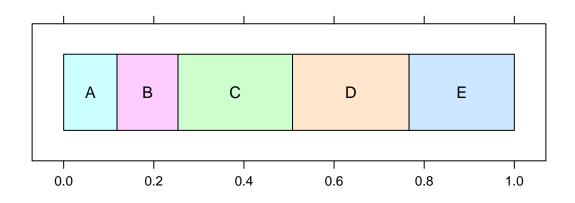
1. I estimate that A is _____% of B.



2. I estimate that D is ____% of C.



3. I estimate that D is _____% of C.

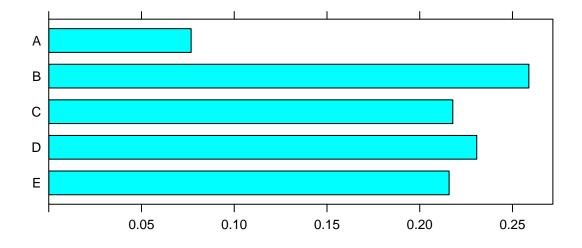


4. I estimate that E is _____% of D.

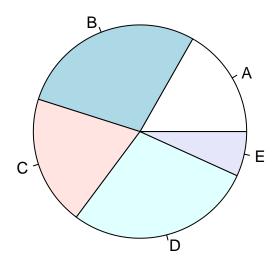
5. I estimate that A is ____% of E.

When you're done, type your answers into my laptop. Your ID is 21.

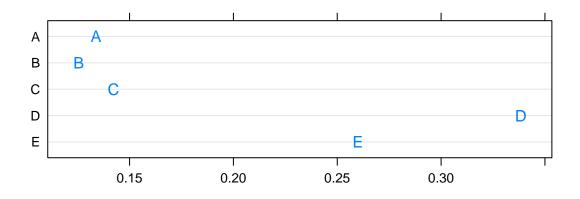
We're going to talk today about Cleveland's work on graphical perception.



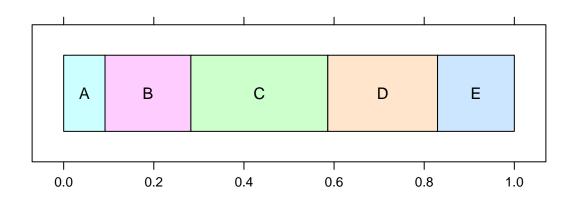
1. I estimate that A is _____% of E.



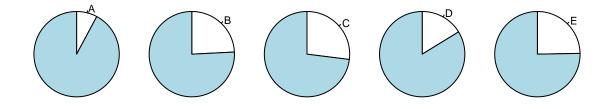
2. I estimate that A is _____% of C.



3. I estimate that B is $__{\%}$ of C.



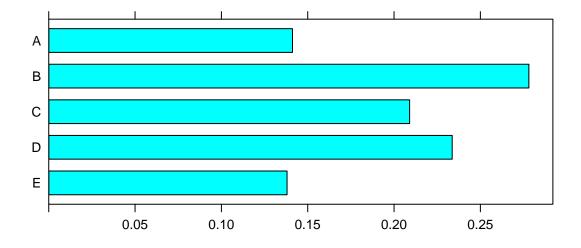
4. I estimate that A is _____% of D.



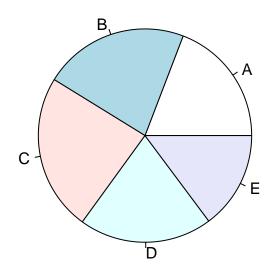
5. I estimate that B is _____% of C.

When you're done, type your answers into my laptop. Your ID is 22.

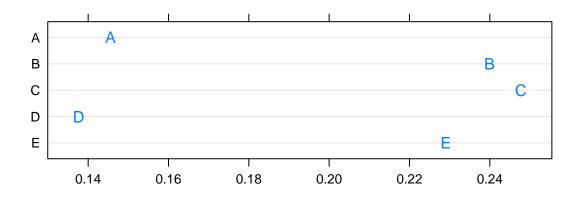
We're going to talk today about Cleveland's work on graphical perception.



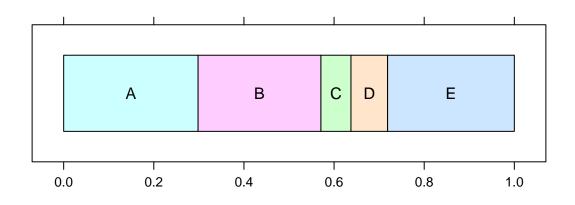
1. I estimate that C is _____% of D.



2. I estimate that D is ____% of B.



3. I estimate that D is _____% of B.

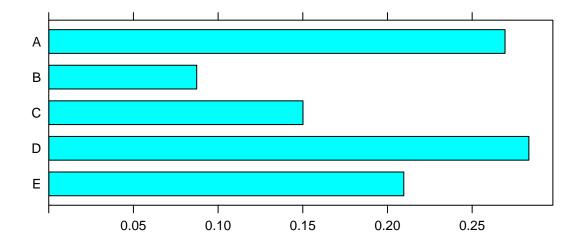


4. I estimate that C is _____% of D.

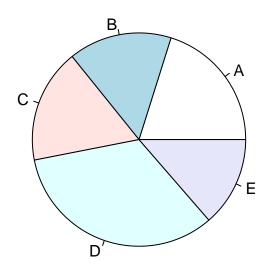
5. I estimate that D is _____% of E.

When you're done, type your answers into my laptop. Your ID is 23.

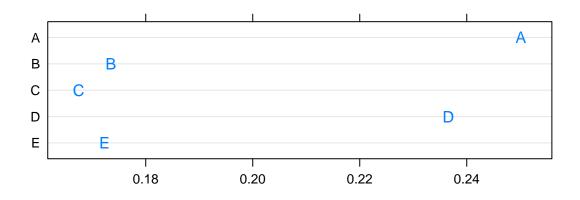
We're going to talk today about Cleveland's work on graphical perception.



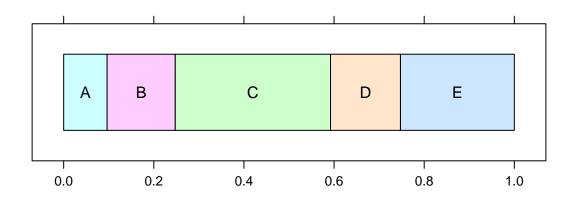
1. I estimate that B is $__{\%}$ of A.



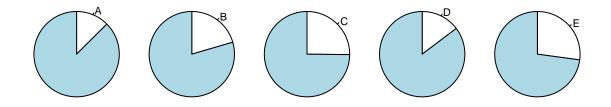
2. I estimate that B is ____% of C.



3. I estimate that C is _____% of E.



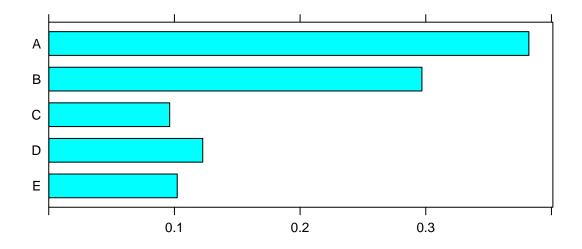
4. I estimate that A is _____% of C.



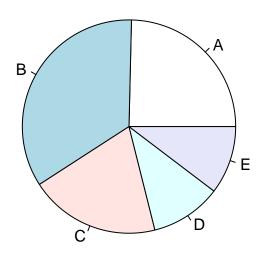
5. I estimate that B is _____% of C.

When you're done, type your answers into my laptop. Your ID is 24.

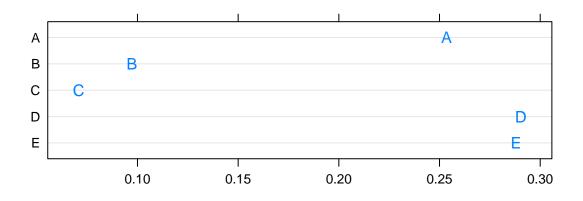
We're going to talk today about Cleveland's work on graphical perception.



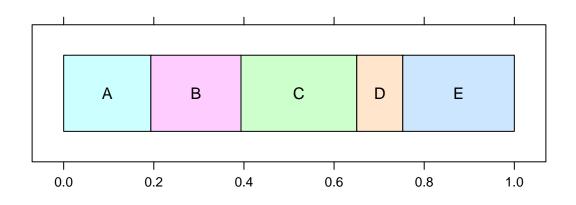
1. I estimate that C is ____% of E.



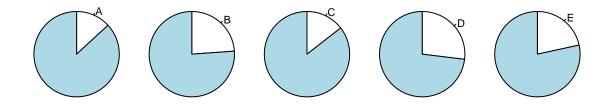
2. I estimate that E is ____% of A.



3. I estimate that A is _____% of E.



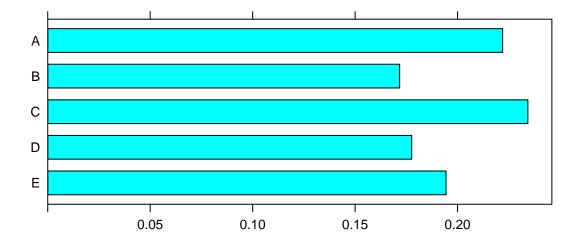
4. I estimate that D is _____% of E.



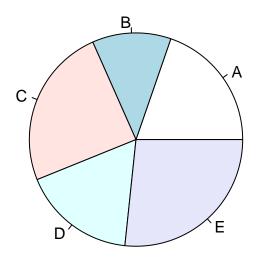
5. I estimate that C is _____% of D.

When you're done, type your answers into my laptop. Your ID is 25.

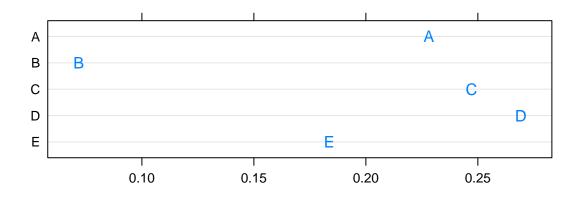
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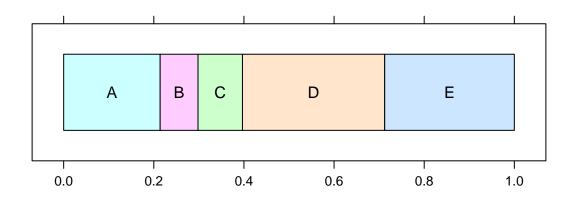
1. I estimate that B is _____% of A.



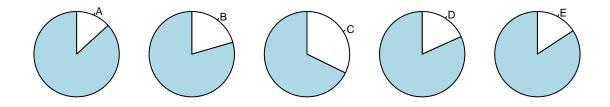
2. I estimate that D is ____% of E.



3. I estimate that A is $\circlessim \%$ of C.



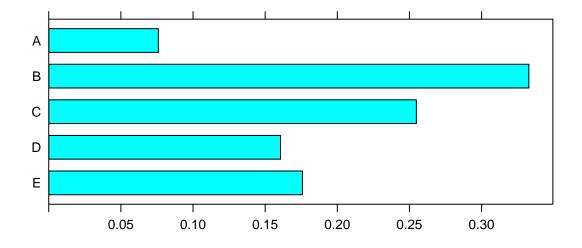
4. I estimate that B is _____% of D.



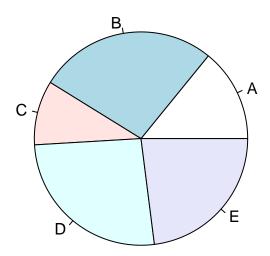
5. I estimate that A is _____% of B.

When you're done, type your answers into my laptop. Your ID is 26.

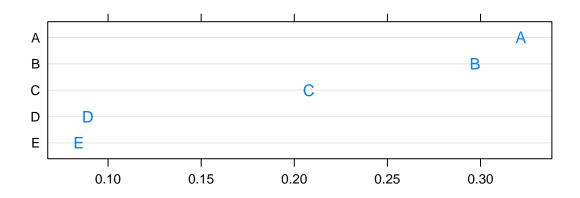
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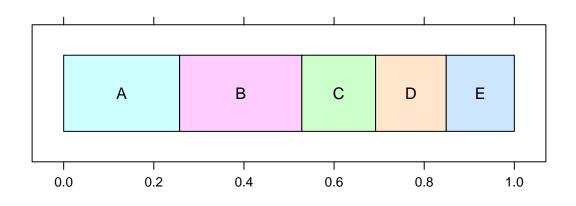
1. I estimate that D is _____% of E.



2. I estimate that A is _____% of D.



3. I estimate that B is _____% of A.

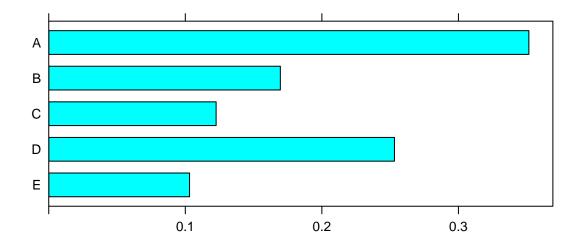


4. I estimate that A is _____% of B.

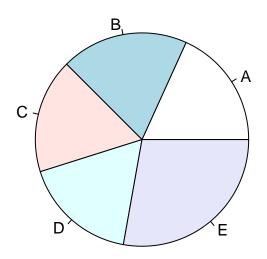
5. I estimate that D is _____% of E.

When you're done, type your answers into my laptop. Your ID is 27.

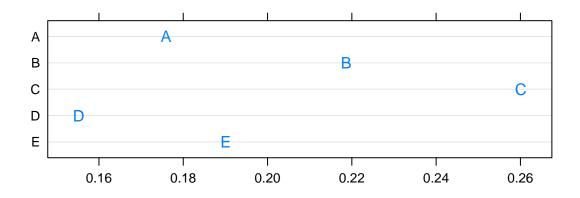
We're going to talk today about Cleveland's work on graphical perception.



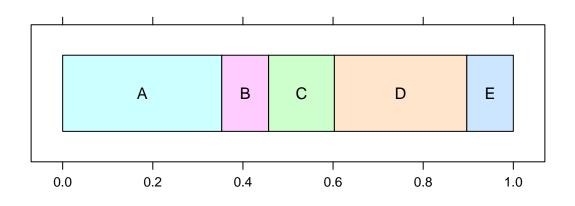
1. I estimate that C is $__{\%}$ of B.



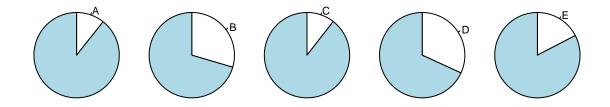
2. I estimate that D is ____% of E.



3. I estimate that E is $\circlessim \%$ of B.



4. I estimate that B is _____% of D.

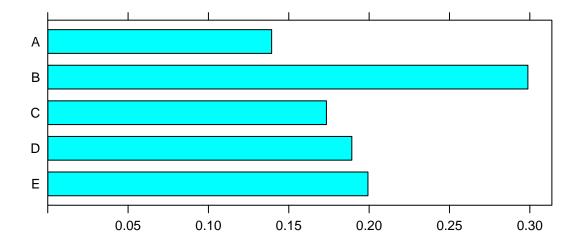


5. I estimate that C is _____% of A.

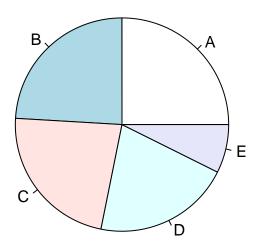
When you're done, type your answers into my laptop. Your ID is 28.

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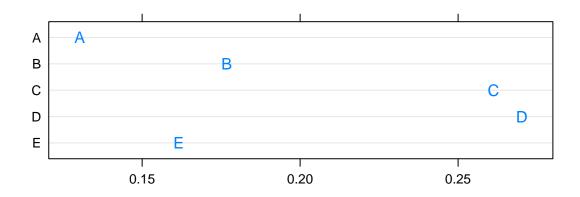
We're going to start by loosely recreating one of his most famous experiments. On the following pages, you'll find a bunch of plots. For each, you are asked to determine the ratio between two things, in terms of a percent. Don't measure or think too hard; this is to meant assess our graphical perception, not how well we measure and do arithmetic.



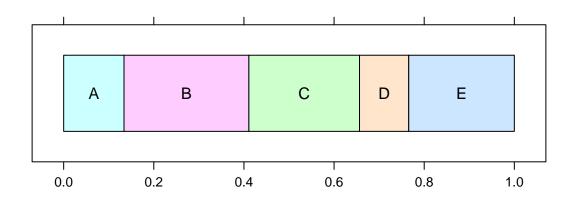
1. I estimate that D is ____% of B.



2. I estimate that E is ____% of A.



3. I estimate that A is $__{\%}$ of D.

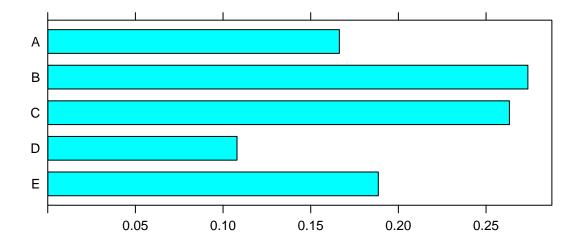


4. I estimate that D is _____% of A.

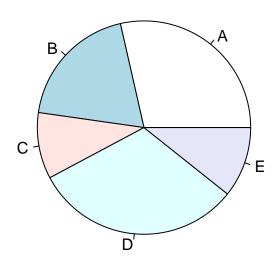
5. I estimate that A is \circlessimeq of E.

When you're done, type your answers into my laptop. Your ID is 29.

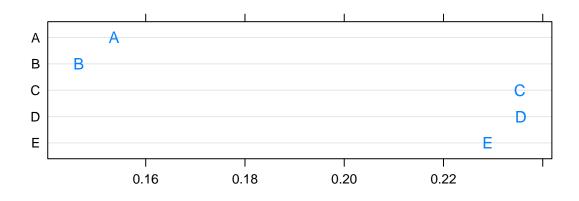
We're going to talk today about Cleveland's work on graphical perception.



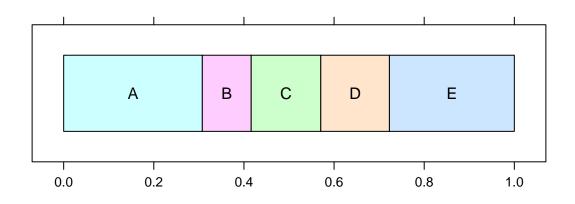
1. I estimate that A is $__{\%}$ of E.



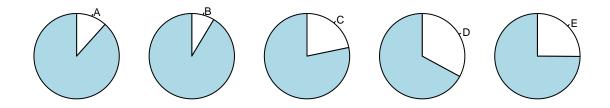
2. I estimate that C is ____% of E.



3. I estimate that B is _____% of D.



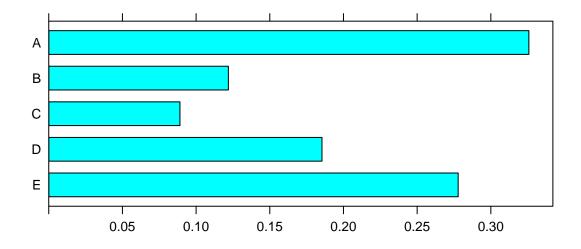
4. I estimate that B is _____% of E.



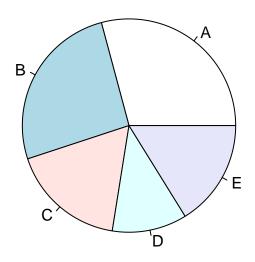
5. I estimate that A is ____% of D.

When you're done, type your answers into my laptop. Your ID is 30.

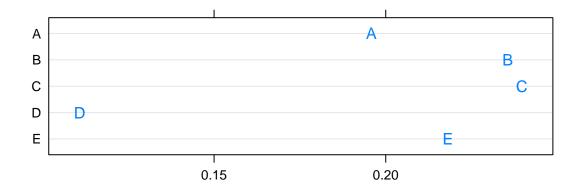
We're going to talk today about Cleveland's work on graphical perception.



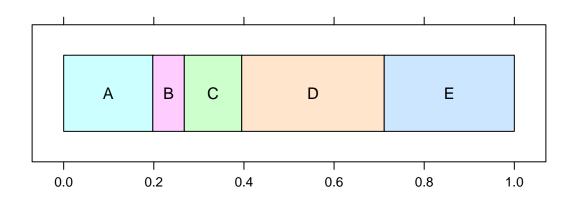
1. I estimate that B is _____% of A.



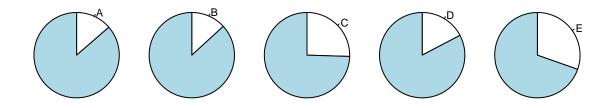
2. I estimate that D is ____% of B.



3. I estimate that B is _____% of C.



4. I estimate that C is _____% of A.

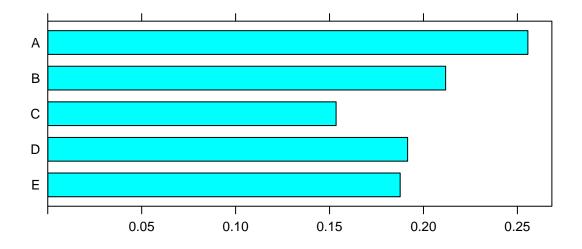


5. I estimate that B is _____% of D.

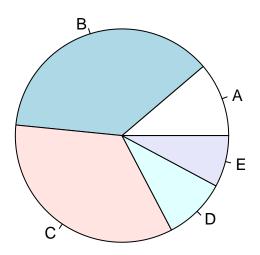
When you're done, type your answers into my laptop. Your ID is 31.

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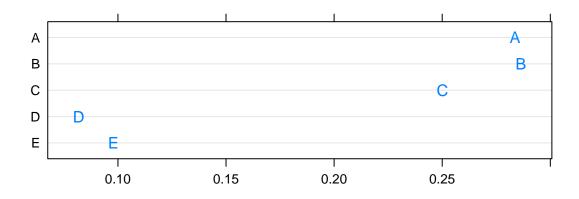
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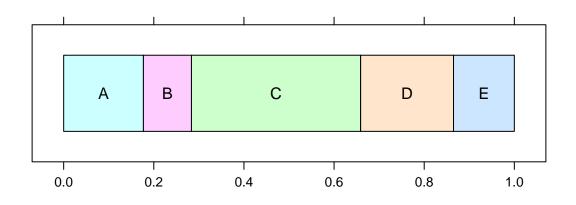
1. I estimate that B is _____% of A.



2. I estimate that E is ____% of C.



3. I estimate that D is ____% of A.

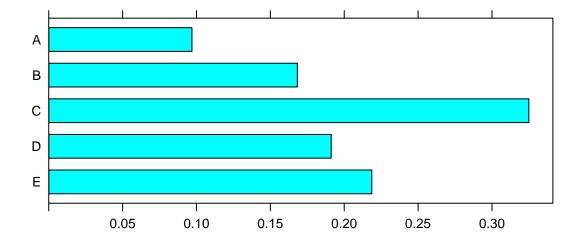


4. I estimate that A is $\circlement{mathcases}$ % of D.

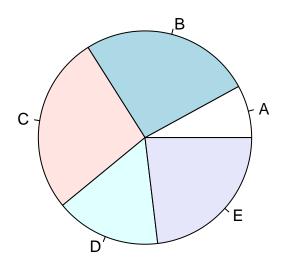
5. I estimate that E is _____% of C.

When you're done, type your answers into my laptop. Your ID is 32.

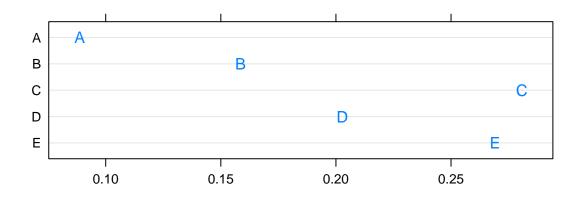
We're going to talk today about Cleveland's work on graphical perception.



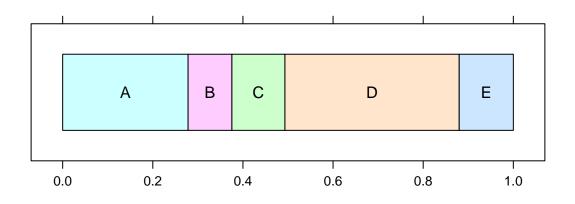
1. I estimate that A is _____% of C.



2. I estimate that E is _____% of B.



3. I estimate that A is \circlessimeq of B.



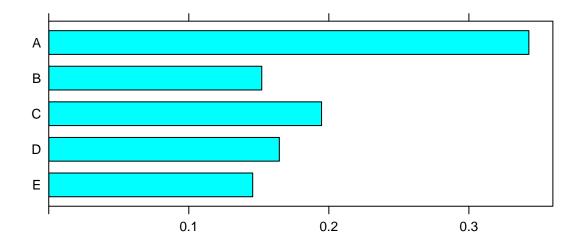
4. I estimate that B is _____% of E.

5. I estimate that E is ____% of C.

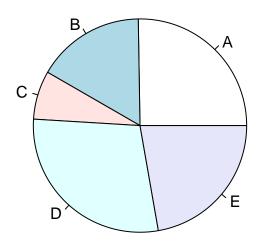
When you're done, type your answers into my laptop. Your ID is 33.

We're going to talk today about Cleveland's work on graphical perception.

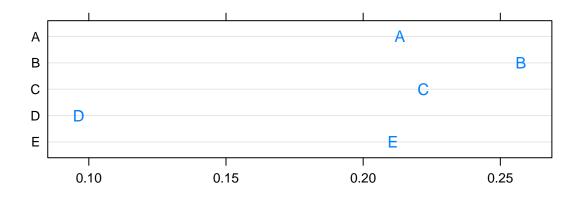
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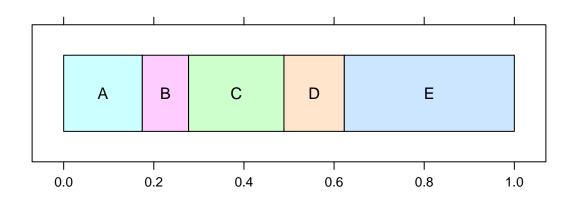
1. I estimate that C is _____% of A.



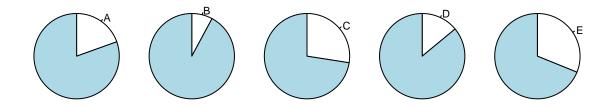
2. I estimate that E is _____% of D.



3. I estimate that A is \circlessimeq of B.



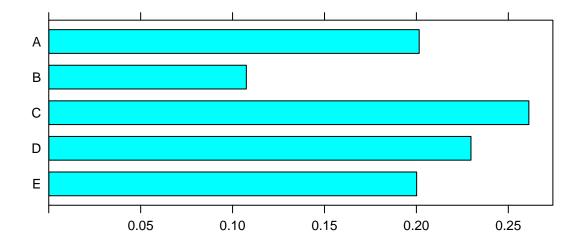
4. I estimate that B is _____% of C.



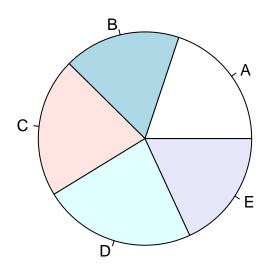
5. I estimate that B is _____% of C.

When you're done, type your answers into my laptop. Your ID is 34.

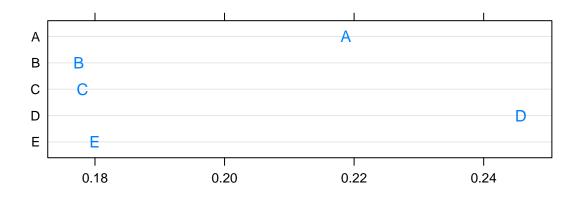
We're going to talk today about Cleveland's work on graphical perception.



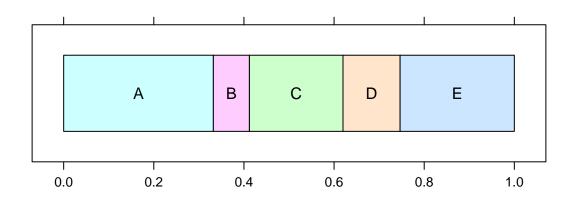
1. I estimate that A is _____% of D.



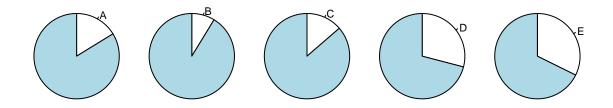
2. I estimate that A is _____% of D.



3. I estimate that E is ____% of A.



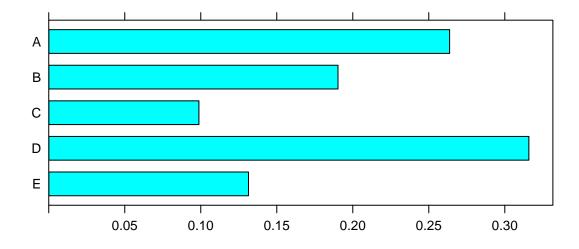
4. I estimate that D is _____% of E.



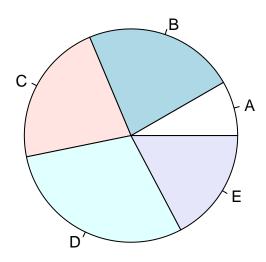
5. I estimate that B is ____% of D.

When you're done, type your answers into my laptop. Your ID is 35.

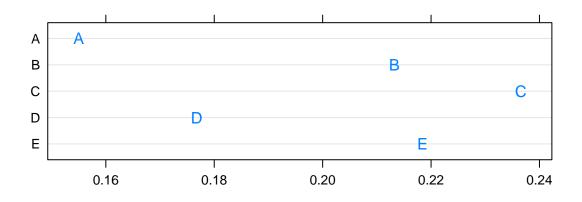
We're going to talk today about Cleveland's work on graphical perception.



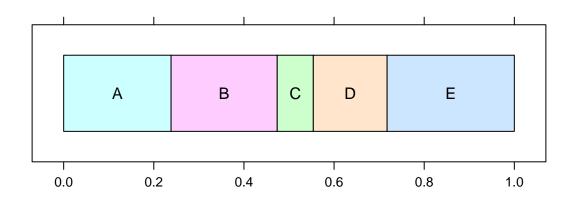
1. I estimate that B is _____% of A.



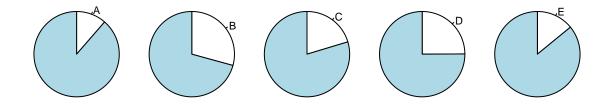
2. I estimate that C is ____% of B.



3. I estimate that A is \circlessimeq of B.



4. I estimate that C is _____% of A.



5. I estimate that E is _____% of C.

When you're done, type your answers into my laptop. Your ID is 36.