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Putting it topether
a To reach that goal we need...

- Items that actually relate to the concept that we are
trying to measure (that's validity)
and for this we used correlation and prediction to
show criterion (concurrent and predictive) and
construct (convergent and discriminant) related
evidence for validity
- Note: The criteria we use in criterion related validity is
not the concept directly either, but another way (e.g.
behavioral, clinical) of measuring the concept.
Putting it together
a To reach that goal we need...
- Items that consistently measure the construct
across samples and time and that are consistently
related to each other (that's reliability)
- We used correlation (test-retest, parallel forms,
split-half) and the variance sum law (coefficient
alpha) to measure reliability
- We even talked about ways of calculating the
number of items needed to reach a desired



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| Common Factor Model <br> - Still rethinking regression <br> - So, theoretically items don't make up a factor (e.g. depression), the factor should predict scores on the item <br> - Example: if you know someone is "depressed" then you should be able to predict how they will respond to each item on the CES-D |
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|  |




| Common Fa <br> - Communality <br> - The communality is a item is explained by th therefore also a measu is related to other item <br> - The communality for $h_{k}^{2}=\sum \psi_{j k}^{2}$ |  |
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