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Cells, Microscopes and Scientific Method

1. In an experiment, what is:
 - a. The independent variable: what is being tested or changed on purpose
 - b. The dependent variable: what is being measured
 - c. The control: what the results of the test is compared to; the normal standard
 - d. A constant: part of the experiments that stays the same

Look at the information below:

Independent Project

What time of day are you most alert?

Assumption: The ability to sort playing cards is an indication of alertness.

Procedure:

1. Shuffle a deck of playing cards four times
2. Time how long it takes to sort the cards into the four suits
3. Repeat the activity at the same times for five days

Data

Time of Day	Average Sorting Time (s)
8:00 a.m.	130
12:00 noon	106
4:00 P.M.	122
8:00 P.M.	127

2. What is the hypothesis for this experiment?
 - a. If you shuffle the cards more times, then you are probably alert.
 - b. If you can sort playing cards, then you are probably alert.
 - c. If it is early in the morning, then you are alert.
3. Which of the following conclusions is supported by the data shown above?
 - a. Alertness is directly related to the level of distraction.
 - b. Shuffling methods can affect alertness.
 - c. Alertness levels vary during the day.
 - d. Long periods of rest improve alertness.
4. Name a constant for this experiment: cards, times shuffled

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web fig 2 2 division of panels in flat slabs a column strip is a design strip with a width on each side of a column centerline equal to $0.25 l_x$ or if drops with dimension not less than $l_x/3$ are used a width equal to the drop dimension a middle strip is a design strip bounded by two column strips

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M_1 ct M_2 cu $M_1 + M_2$ cv M_1 cw M_2 cx $M_1 + M_2$ cy M_1 cz M_2 da $M_1 + M_2$ db M_1 dc M_2 dd $M_1 + M_2$ de M_1 df M_2 dg $M_1 + M_2$ dh M_1 di M_2 dj $M_1 + M_2$ dk M_1 dl M_2 dm $M_1 + M_2$ dn M_1 do M_2 dp $M_1 + M_2$ dq M_1 dr M_2 ds $M_1 + M_2$ dt M_1 du M_2 dv $M_1 + M_2$ dw M_1 dx M_2 dy $M_1 + M_2$ dz M_1 ea M_2 eb $M_1 + M_2$ ec M_1 ed M_2 ee $M_1 + M_2$ ef M_1 eg M_2 eh $M_1 + M_2$ ei M_1 ej M_2 ek $M_1 + M_2$ el M_1 em M_2 en $M_1 + M_2$ eo M_1 ep M_2 eq $M_1 + M_2$ er M_1 es M_2 et $M_1 + M_2$ eu M_1 ev M_2 ew $M_1 + M_2$ ex M_1 ey M_2 ez $M_1 + M_2$ fa M_1 fb M_2 fc $M_1 + M_2$ fd M_1 fe M_2 ff $M_1 + M_2$ fg M_1 fh M_2 fi $M_1 + M_2$ fj M_1 fk M_2 fl $M_1 + M_2$ fm M_1 fn M_2 fo $M_1 + M_2$ fp M_1 fq M_2 fr $M_1 + M_2$ fs M_1 ft M_2 fu $M_1 + M_2$ fv M_1 fw M_2 fx $M_1 + M_2$ fy M_1 fz M_2 ga $M_1 + M_2$ gb M_1 gc M_2 gd $M_1 + M_2$ ge M_1 gf M_2 gh $M_1 + M_2$ gi M_1 gj M_2 gk $M_1 + M_2$ gl M_1 gm M_2 gn $M_1 + M_2$ go M_1 gp M_2 gq $M_1 + M_2$ gr M_1 gs M_2 gt $M_1 + M_2$ gu M_1 gv M_2 gw $M_1 + M_2$ gx M_1 gy M_2 gz $M_1 + M_2$ ha M_1 hb M_2 hc $M_1 + M_2$ hd M_1 he M_2 hf $M_1 + M_2$ hg M_1 hh M_2 hi $M_1 + M_2$ hj M_1 hk M_2 hl $M_1 + M_2$ hm M_1 hn M_2 ho $M_1 + M_2$ hp M_1 hq M_2 hr $M_1 + M_2$ hs M_1 ht M_2 hu $M_1 + M_2$ hv M_1 hw M_2 hx $M_1 + M_2$ hy M_1 hz M_2 ia $M_1 + M_2$ ib M_1 ic M_2 id $M_1 + M_2$ ie M_1 if M_2 ig $M_1 + M_2$ ih M_1 ii M_2 ij $M_1 + M_2$ ik M_1 il M_2 im $M_1 + M_2$ in M_1 io M_2 ip $M_1 + M_2$ iq M_1 ir M_2 is $M_1 + M_2$ it M_1 iv M_2 iv $M_1 + M_2$ iw M_1 ix M_2 ix $M_1 + M_2$ iy M_1 iz M_2 ja $M_1 + M_2$ jb M_1 jc M_2 jd $M_1 + M_2$ je M_1 jf M_2 jg $M_1 + M_2$ jh M_1 ji M_2 jj $M_1 + M_2$ jk M_1 jl M_2 jm $M_1 + M_2$ jn M_1 jo M_2 jp $M_1 + M_2$ jq M_1 jr M_2 js $M_1 + M_2$ jt M_1 ju M_2 ju $M_1 + M_2$ jv M_1 jw M_2 jw $M_1 + M_2$ jx M_1 jy M_2 jy $M_1 + M_2$ jz M_1 ka M_2 kb $M_1 + M_2$ kc M_1 kd M_2 ke $M_1 + M_2$ kf M_1 kg M_2 kh $M_1 + M_2$ ki M_1 kj M_2 kl $M_1 + M_2$ km M_1 kn M_2 ko $M_1 + M_2$ kp M_1 kq M_2 kr $M_1 + M_2$ ks M_1 kt M_2 kt $M_1 + M_2$ kv M_1 kw M_2 kw $M_1 + M_2$ kx M_1 ky M_2 ky $M_1 + M_2$ kz M_1 la M_2 lb $M_1 + M_2$ lc M_1 ld M_2 le $M_1 + M_2$ lf M_1 lg M_2 lh $M_1 + M_2$ li M_1 lj M_2 lj $M_1 + M_2$ lk M_1 ll M_2 ll $M_1 + M_2$ lm M_1 ln M_2 ln $M_1 + M_2$ lo M_1 lp M_2 lp $M_1 + M_2$ lq M_1 lr M_2 lr $M_1 + M_2$ ls M_1 lt M_2 lt $M_1 + M_2$ lv M_1 lw M_2 lw $M_1 + M_2$ lx M_1 ly M_2 ly $M_1 + M_2$ lz M_1 ma M_2 mb $M_1 + M_2$ mc M_1 md M_2 me $M_1 + M_2$ mf M_1 mg M_2 mh $M_1 + M_2$ mi M_1 mj M_2 mj $M_1 + M_2$ mk M_1 ml M_2 ml $M_1 + M_2$ mn M_1 mo M_2 mo $M_1 + M_2$ mp M_1 mq M_2 mq $M_1 + M_2$ mr M_1 ms M_2 ms $M_1 + M_2$ mt M_1 mu M_2 mu $M_1 + M_2$ mv M_1 mw M_2 mw $M_1 + M_2$ mx M_1 my M_2 my $M_1 + M_2$ mz M_1 na M_2 nb $M_1 + M_2$ nc M_1 nd M_2 ne $M_1 + M_2$ nf M_1 ng M_2 nh $M_1 + M_2$ ni M_1 nj M_2 nj $M_1 + M_2$ nk M_1 nl M_2 nl $M_1 + M_2$ nm M_1 no M_2 no $M_1 + M_2$ np M_1 nq M_2 nq $M_1 + M_2$ nr M_1 ns M_2 ns $M_1 + M_2$ nt M_1 nu M_2 nu $M_1 + M_2$ nv M_1 nw M_2 nw $M_1 + M_2$ nx M_1 ny M_2 ny $M_1 + M_2$ nz M_1 oa M_2 ob $M_1 + M_2$ oc M_1 od M_2 oe $M_1 + M_2$ of M_1 og M_2 oh $M_1 + M_2$ oi M_1 oj M_2 oj $M_1 + M_2$ ok M_1 ol M_2 ol $M_1 + M_2$ om M_1 on M_2 on $M_1 + M_2$ oo M_1 op M_2 op $M_1 + M_2$ oq M_1 or M_2 or $M_1 + M_2$ os M_1 ot M_2 ot $M_1 + M_2$ ov M_1 ow M_2 ow $M_1 + M_2$ ox M_1 oy M_2 oy $M_1 + M_2$ oz M_1 pa M_2 pb $M_1 + M_2$ pc M_1 pd M_2 pe $M_1 + M_2$ pf M_1 pg M_2 ph $M_1 + M_2$ pi M_1 pj M_2 pj $M_1 + M_2$ pk M_1 pl M_2 pl $M_1 + M_2$ pm M_1 pn M_2 pn $M_1 + M_2$ po M_1 pp M_2 pp $M_1 + M_2$ pq M_1 pr M_2 pr $M_1 + M_2$ ps M_1 pt M_2 pt $M_1 + M_2$ pv M_1 pw M_2 pw $M_1 + M_2$ px M_1 py M_2 py $M_1 + M_2$ pz M_1 qa M_2 qb $M_1 + M_2$ qc M_1 qd M_2 qe $M_1 + M_2$ qf M_1 qg M_2 qh $M_1 + M_2$ qi M_1 qj M_2 qj $M_1 + M_2$ qk M_1 ql M_2 ql $M_1 + M_2$ qm M_1 qn M_2 qn $M_1 + M_2$ qo M_1 qp M_2 qp $M_1 + M_2$ qq M_1 qr M_2 qr $M_1 + M_2$ qs M_1 qt M_2 qt $M_1 + M_2$ qv M_1 qw M_2 qw $M_1 + M_2$ qx M_1 qy M_2 qy $M_1 + M_2$ qz M_1 ra M_2 rb $M_1 + M_2$ rc M_1 rd M_2 re $M_1 + M_2$ rf M_1 rg M_2 rh $M_1 + M_2$ ri M_1 rj M_2 rj $M_1 + M_2$ rk M_1 rl M_2 rl $M_1 + M_2$ rm M_1 rn M_2 rn $M_1 + M_2$ ro M_1 rp M_2 rp $M_1 + M_2$ rq M_1 rr M_2 rr $M_1 + M_2$ rs M_1 rt M_2 rt $M_1 + M_2$ rv M_1 rw M_2 rw $M_1 + M_2$ rx M_1 ry M_2 ry $M_1 + M_2$ rz M_1 sa M_2 sb $M_1 + M_2$ sc M_1 sd M_2 se $M_1 + M_2$ sf M_1 sg M_2 sh $M_1 + M_2$ si M_1 sj M_2 sj $M_1 + M_2$ sk M_1 sl M_2 sl $M_1 + M_2$ sm M_1 sn M_2 sn $M_1 + M_2$ so M_1 sp M_2 sp $M_1 + M_2$ sq M_1 sr M_2 sr $M_1 + M_2$ ss M_1 st M_2 st $M_1 + M_2$ sv M_1 sw M_2 sw $M_1 + M_2$ sx M_1 sy M_2 sy $M_1 + M_2$ sz M_1 ta M_2 tb $M_1 + M_2$ tc M_1 td M_2 te $M_1 + M_2$ tf M_1 tg M_2 th $M_1 + M_2$ ti M_1 tj M_2 tj $M_1 + M_2$ tk M_1 tl M_2 tl $M_1 + M_2$ tm M_1 tn M_2 tn $M_1 + M_2$ to M_1 tp M_2 tp $M_1 + M_2$ tq M_1 tr M_2 tr $M_1 + M_2$ ts M_1 tt M_2 tt $M_1 + M_2$ tv M_1 tw M_2 tw $M_1 + M_2$ tx M_1 ty M_2 ty $M_1 + M_2$ tz M_1 ua M_2 ub $M_1 + M_2$ uc M_1 ud M_2 ue $M_1 + M_2$ uf M_1 ug M_2 uh $M_1 + M_2$ ui M_1 uj M_2 uj $M_1 + M_2$ uk M_1 ul M_2 ul $M_1 + M_2$ um M_1 un M_2 un $M_1 + M_2$ uo M_1 up M_2 up $M_1 + M_2$ uq M_1 ur M_2 ur $M_1 + M_2$ us M_1 ut M_2 ut $M_1 + M_2$ uv M_1 uw M_2 uw $M_1 + M_2$ ux M_1 uy M_2 uy $M_1 + M_2$ uz M_1 va M_2 vb $M_1 + M_2$ vc M_1 vd M_2 ve $M_1 + M_2$ vf M_1 vg M_2 vh $M_1 + M_2$ vi M_1 vj M_2 vj $M_1 + M_2$ vk M_1 vl M_2 vl $M_1 + M_2$ vm M_1 vn M_2 vn $M_1 + M_2$ vo M_1 vp M_2 vp $M_1 + M_2$ vq M_1 vr M_2 vr $M_1 + M_2$ vs M_1 vt M_2 vt $M_1 + M_2$ vv M_1 vw M_2 vw $M_1 + M_2$ vx M_1 vy M_2 vy $M_1 + M_2$ vz M_1 wa M_2 wb $M_1 + M_2$ wc M_1 wd M_2 we $M_1 + M_2$ wf M_1 wg M_2 wh $M_1 + M_2$ wi M_1 wj M_2 wj $M_1 + M_2$ wk M_1 wl M_2 wl $M_1 + M_2$ wm M_1 wn M_2 wn $M_1 + M_2$ wo M_1 wp M_2 wp $M_1 + M_2$ wq M_1 wr M_2 wr $M_1 + M_2$ ws M_1 wt M_2 wt $M_1 + M_2$ vv M_1 vw M_2 vw $M_1 + M_2$ vx M_1 wy M_2 wy $M_1 + M_2$ wz M_1 xa M_2 xb $M_1 + M_2$ xc M_1 xd M_2 xe $M_1 + M_2$ xf M_1 xg M_2 xh $M_1 + M_2$ xi M_1 xj M_2 xj $M_1 + M_2$ xk M_1 xl M_2 xl $M_1 + M_2$ xm M_1 xn M_2 xn $M_1 + M_2$ xo M_1 xp M_2 xp $M_1 + M_2$ xq M_1 xr M_2 xr $M_1 + M_2$ xs M_1 xt M_2 xt $M_1 + M_2$ xv M_1 xw M_2 xw $M_1 + M_2$ xx M_1 xy M_2 xy $M_1 + M_2$ xz M_1 ya M_2 yb $M_1 + M_2$ yc M_1 yd M_2 ye $M_1 + M_2$ yf M_1 yg M_2 yh $M_1 + M_2$ yi M_1 yj M_2 yj $M_1 + M_2$ yk M_1 yl M_2 yl $M_1 + M_2$ ym M_1 yn M_2 yn $M_1 + M_2$ yo M_1 yp M_2 yp $M_1 + M_2$ yq M_1 yr M_2 yr $M_1 + M_2$ ys M_1 yt M_2 yt $M_1 + M_2$ yv M_1 yw M_2 yw $M_1 + M_2$ yx M_1 yy M_2 yy $M_1 + M_2$ yz M_1 za M_2 zb $M_1 + M_2$ zc M_1 zd M_2 ze $M_1 + M_2$ zf M_1 zg M_2 zh $M_1 + M_2$ zi M_1 zj M_2 zj $M_1 + M_2$ zk M_1 zl M_2 zl $M_1 + M_2$ zm M_1 zn M_2 zn $M_1 + M_2$ zo M_1 zp M_2 zp $M_1 + M_2$ zq M_1 zr M_2 zr $M_1 + M_2$ zs M_1 zt M_2 zt $M_1 + M_2$ zv M_1 zw M_2 zw $M_1 + M_2$ zx M_1 zy M_2 zy $M_1 + M_2$ zz M_1