











$$\sigma = \frac{\text{NEFD} \exp(A \tau_{\text{zen}})}{\sqrt{t_{\sigma}}},$$



Aspirin









1. *Explain the importance of the following factors in the development of a country's economy:*
 a. *Human Resources*
 b. *Capital Resources*
 c. *Technology*
 d. *Government Policy*
 e. *Infrastructure*
 f. *Trade and International Relations*
 g. *Education and Health*
 h. *Environmental Factors*
 i. *Political Stability*
 j. *Legal System*
 k. *Religion and Culture*
 l. *Geographical Location*
 m. *Climate and Natural Resources*
 n. *Demographics*
 o. *History and Tradition*
 p. *Language and Communication*
 q. *Religion and Culture*
 r. *Geographical Location*
 s. *Climate and Natural Resources*
 t. *Demographics*
 u. *History and Tradition*
 v. *Language and Communication*
 w. *Religion and Culture*
 x. *Geographical Location*
 y. *Climate and Natural Resources*
 z. *Demographics*
 aa. *History and Tradition*
 ab. *Language and Communication*
 ac. *Religion and Culture*
 ad. *Geographical Location*
 ae. *Climate and Natural Resources*
 af. *Demographics*
 ag. *History and Tradition*
 ah. *Language and Communication*
 ai. *Religion and Culture*
 aj. *Geographical Location*
 ak. *Climate and Natural Resources*
 al. *Demographics*
 am. *History and Tradition*
 an. *Language and Communication*
 ao. *Religion and Culture*
 ap. *Geographical Location*
 aq. *Climate and Natural Resources*
 ar. *Demographics*
 as. *History and Tradition*
 at. *Language and Communication*
 au. *Religion and Culture*
 av. *Geographical Location*
 aw. *Climate and Natural Resources*
 ax. *Demographics*
 ay. *History and Tradition*
 az. *Language and Communication*
 ba. *Religion and Culture*
 bb. *Geographical Location*
 bc. *Climate and Natural Resources*
 bd. *Demographics*
 be. *History and Tradition*
 bf. *Language and Communication*
 bg. *Religion and Culture*
 bh. *Geographical Location*
 bi. *Climate and Natural Resources*
 bj. *Demographics*
 bk. *History and Tradition*
 bl. *Language and Communication*
 bm. *Religion and Culture*
 bn. *Geographical Location*
 bo. *Climate and Natural Resources*
 bp. *Demographics*
 bq. *History and Tradition*
 br. *Language and Communication*
 bs. *Religion and Culture*
 bt. *Geographical Location*
 bu. *Climate and Natural Resources*
 bv. *Demographics*
 bw. *History and Tradition*
 bx. *Language and Communication*
 by. *Religion and Culture*
 bz. *Geographical Location*
 ca. *Climate and Natural Resources*
 cb. *Demographics*
 cc. *History and Tradition*
 cd. *Language and Communication*
 ce. *Religion and Culture*
 cf. *Geographical Location*
 cg. *Climate and Natural Resources*
 ch. *Demographics*
 ci. *History and Tradition*
 cj. *Language and Communication*
 ck. *Religion and Culture*
 cl. *Geographical Location*
 cm. *Climate and Natural Resources*
 cn. *Demographics*
 co. *History and Tradition*
 cp. *Language and Communication*
 cq. *Religion and Culture*
 cr. *Geographical Location*
 cs. *Climate and Natural Resources*
 ct. *Demographics*
 cu. *History and Tradition*
 cv. *Language and Communication*
 cw. *Religion and Culture*
 cx. *Geographical Location*
 cy. *Climate and Natural Resources*
 cz. *Demographics*
 da. *History and Tradition*
 db. *Language and Communication*
 dc. *Religion and Culture*
 dd. *Geographical Location*
 de. *Climate and Natural Resources*
 df. *Demographics*
 dg. *History and Tradition*
 dh. *Language and Communication*
 di. *Religion and Culture*
 dj. *Geographical Location*
 dk. *Climate and Natural Resources*
 dl. *Demographics*
 dm. *History and Tradition*
 dn. *Language and Communication*
 do. *Religion and Culture*
 dp. *Geographical Location*
 dq. *Climate and Natural Resources*
 dr. *Demographics*
 ds. *History and Tradition*
 dt. *Language and Communication*
 du. *Religion and Culture*
 dv. *Geographical Location*
 dw. *Climate and Natural Resources*
 dx. *Demographics*
 dy. *History and Tradition*
 dz. *Language and Communication*
 ea. *Religion and Culture*
 eb. *Geographical Location*
 ec. *Climate and Natural Resources*
 ed. *Demographics*
 ee. *History and Tradition*
 ef. *Language and Communication*
 eg. *Religion and Culture*
 eh. *Geographical Location*
 ei. *Climate and Natural Resources*
 ej. *Demographics*
 ek. *History and Tradition*
 el. *Language and Communication*
 em. *Religion and Culture*
 en. *Geographical Location*
 eo. *Climate and Natural Resources*
 ep. *Demographics*
 eq. *History and Tradition*
 er. *Language and Communication*
 es. *Religion and Culture*
 et. *Geographical Location*
 eu. *Climate and Natural Resources*
 ev. *Demographics*
 ew. *History and Tradition*
 ex. *Language and Communication*
 ey. *Religion and Culture*
 ez. *Geographical Location*
 fa. *Climate and Natural Resources*
 fb. *Demographics*
 fc. *History and Tradition*
 fd. *Language and Communication*
 fe. *Religion and Culture*
 ff. *Geographical Location*
 fg. *Climate and Natural Resources*
 fh. *Demographics*
 fi. *History and Tradition*
 fj. *Language and Communication*
 fk. *Religion and Culture*
 fl. *Geographical Location*
 fm. *Climate and Natural Resources*
 fn. *Demographics*
 fo. *History and Tradition*
 fp. *Language and Communication*
 fq. *Religion and Culture*
 fr. *Geographical Location*
 fs. *Climate and Natural Resources*
 ft. *Demographics*
 fu. *History and Tradition*
 fv. *Language and Communication*
 fw. *Religion and Culture*
 fx. *Geographical Location*
 fy. *Climate and Natural Resources*
 fz. *Demographics*
 ga. *History and Tradition*
 gb. *Language and Communication*
 gc. *Religion and Culture*
 gd. *Geographical Location*
 ge. *Climate and Natural Resources*
 gf. *Demographics*
 gg. *History and Tradition*
 gh. *Language and Communication*
 gi. *Religion and Culture*
 gj. *Geographical Location*
 gk. *Climate and Natural Resources*
 gl. *Demographics*
 gm. *History and Tradition*
 gn. *Language and Communication*
 go. *Religion and Culture*
 gp. *Geographical Location*
 gq. *Climate and Natural Resources*
 gr. *Demographics*
 gs. *History and Tradition*
 gt. *Language and Communication*
 gu. *Religion and Culture*
 gv. *Geographical Location*
 gw. *Climate and Natural Resources*
 gx. *Demographics*
 gy. *History and Tradition*
 gz. *Language and Communication*
 ha. *Religion and Culture*
 hb. *Geographical Location*
 hc. *Climate and Natural Resources*
 hd. *Demographics*
 he. *History and Tradition*
 hf. *Language and Communication*
 hg. *Religion and Culture*
 hh. *Geographical Location*
 hi. *Climate and Natural Resources*
 hj. *Demographics*
 hk. *History and Tradition*
 hl. *Language and Communication*
 hm. *Religion and Culture*
 hn. *Geographical Location*
 ho. *Climate and Natural Resources*
 hp. *Demographics*
 hq. *History and Tradition*
 hr. *Language and Communication*
 hs. *Religion and Culture*
 ht. *Geographical Location*
 hu. *Climate and Natural Resources*
 hv. *Demographics*
 hw. *History and Tradition*
 hx. *Language and Communication*
 hy. *Religion and Culture*
 hz. *Geographical Location*
 ia. *Climate and Natural Resources*
 ib. *Demographics*
 ic. *History and Tradition*
 id. *Language and Communication*
 ie. *Religion and Culture*
 if. *Geographical Location*
 ig. *Climate and Natural Resources*
 ih. *Demographics*
 ii. *History and Tradition*
 ij. *Language and Communication*
 ik. *Religion and Culture*
 il. *Geographical Location*
 im. *Climate and Natural Resources*
 in. *Demographics*
 io. *History and Tradition*
 ip. *Language and Communication*
 iq. *Religion and Culture*
 ir. *Geographical Location*
 is. *Climate and Natural Resources*
 it. *Demographics*
 iu. *History and Tradition*
 iv. *Language and Communication*
 iw. *Religion and Culture*
 ix. *Geographical Location*
 iy. *Climate and Natural Resources*
 iz. *Demographics*
 ja. *History and Tradition*
 jb. *Language and Communication*
 jc. *Religion and Culture*
 jd. *Geographical Location*
 je. *Climate and Natural Resources*
 jf. *Demographics*
 jg. *History and Tradition*
 jh. *Language and Communication*





$$t_{cal} = n_{cal}(t_{pointing} + t_{focus} + t_{skydips} + t_{conf}),$$







canal

oodi







$$n_{\text{source}} t_{\text{source}} \leq n_{\text{cal}} d_{\text{cal}} \quad i.e. \quad \epsilon_{\text{tel}} t_{\text{tel}} \leq n_{\text{cal}} (d_{\text{cal}} + t_{\text{cal}}) \quad \text{OR} \quad \frac{\epsilon_{\text{tel}} t_{\text{tel}}}{d_{\text{cal}} + t_{\text{cal}}} \leq n_{\text{cal}}.$$



www.ace

tot



evangelical



W

V

L

E

C

H

D

overhead
sivbsead

overboard

9911





1992-1993



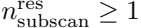


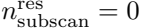
$$\text{floor} \left(\frac{n_{\text{subscan}}^{\text{tot}}}{n_{\text{subscan}}^{\text{max}}} \right),$$

1990-2000

tot max
vba vba vba









WORLD

$$2 \text{ max subseq} (\text{max subseq} + \text{overhead}) + \text{overhead}$$



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$$n_{\text{scan}} t_{\text{scan}} + [n_{\text{rescan}} (t_{\text{subscan}} + t_{\text{overhead}}) + t_{\text{scan}}] \cdot$$













$\Delta_{\text{SOI}} + \Delta_{\text{array}} + \Delta_{\text{throw}} + \Delta_{\text{base}}$



airway











A pixelated, black and white graphic of the word "Warp" in a stylized, blocky font. The letters are composed of a grid of black and white pixels, giving it a retro, digital appearance. The word is centered horizontally and occupies the middle portion of the image.



COVE

corvettes
are beautiful

$$\Omega_{\text{map}} = n_{\text{subscan}}^{\text{cover}} \delta \Delta_{\text{tot}}^{\parallel} \quad \text{with} \quad n_{\text{subscan}}^{\text{cover}} = \text{ceil} \left(\frac{\Delta_{\text{tot}}^{\perp}}{\delta} + 1 \right);$$

$$\Delta_{tot} = v_{||} t_{subscan} \text{ and } t_{cover} = n_{cover} t_{subscan};$$

WINTER IS COMING

ALDO 2012





can't do it

$$\Delta edge = \Delta array + \Delta row + \Delta base$$



$$\Delta \text{submap}(\Delta \text{submap} + \Delta \text{edge}) = \Delta \text{submap} \odot v.$$

$$\Delta_{\text{submap}} = \frac{\sqrt{\Delta_{\text{edge}}^2 + 4d_{\text{submap}}\delta v_{\parallel}} - \Delta_{\text{edge}}}{2}.$$

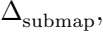




$\Delta_{\text{moe}} + \Delta_{\text{array}} + \Delta_{\text{throw}} + \Delta_{\text{base}}$







$\Delta \text{vibmap} + \Delta \text{array} + \Delta \text{brow} + \Delta \text{base}$

$$\Delta_{\parallel \text{mos}}^2 + \Delta_{\perp \text{mos}}^2$$

$$\Delta_{\text{submap}}^2$$



$$\sigma_{\text{beam}} = \frac{\text{NEFD} \exp(A \tau_{\text{zen}})}{\sqrt{t_{\text{beam}}}} \quad \text{with} \quad t_{\text{beam}} = \frac{n_{\text{cover}} t_{\text{cover}}}{n_{\text{beam}}^{\text{bol}}} ,$$





bold

bold

$$n_{\text{beam}}^{\text{bol}} = \frac{\Omega_{\text{map}}}{n_{\text{bol}}^{\text{tot}} \Omega_{\text{beam}}} \quad \text{with} \quad n_{\text{bol}}^{\text{tot}} = n_{\text{bol}}^{\text{max}} - n_{\text{bol}}^{\text{dead}} \quad \text{and} \quad \Omega_{\text{beam}} = \frac{\eta_{\text{grid}} \pi \theta^2}{4 \ln(2)},$$



2020





$$\sigma_{\text{beam}} = \frac{\text{NEFD}}{\sqrt{n_{\text{bol}}^{\text{tot}} \Omega_{\text{beam}}}} \exp(A \tau_{\text{zen}}) \sqrt{\frac{\delta v_{\parallel}}{n_{\text{cover}}}}.$$

$$\frac{\text{NEFD}}{\sqrt{n_{\text{bol}}^{\text{tot}}} \Omega_{\text{beam}}} \simeq 0.2 \text{ (mJy/Beam)} \sqrt{s}''.$$

$$\sigma_{\text{actual}} = a(\Delta_{\text{sou}}^{\parallel}) \exp(A \tau_{\text{zen}}) \sqrt{\frac{\delta v_{\parallel}}{n_{\text{cover}}}} \, ;$$

A pixelated, black and white logo. It features a large, stylized 'Q' on the left, followed by a large 'A' in the center. To the right of the 'A' is the year '2011' in a bold, blocky font. The entire logo is composed of a grid of black and white pixels, giving it a retro, digital appearance.



$$n_{\text{subscan}}^{\text{max}} (t_{\text{subscan}} + t_{\text{scan}}^{\text{overhead}}) + t_{\text{scan}}^{\text{overhead}} \leq d_{\text{scan}} \quad \text{Or} \quad n_{\text{subscan}}^{\text{max}} \leq \frac{d_{\text{scan}} - t_{\text{scan}}^{\text{overhead}}}{t_{\text{subscan}} + t_{\text{subscan}}^{\text{overhead}}}$$







0509

$$\Delta \| + \Delta array + \Delta throw + \Delta base$$



and empirical increasing function of Δ .





$$\Delta_{\text{submap}} = 0.5 \left(\sqrt{\Delta_{\text{edge}}^2 + 4d_{\text{submap}} \delta v_{\parallel}} - \Delta_{\text{edge}} \right)$$

$\Delta edge = \Delta array + \Delta row + \Delta base$



$\Delta_{\text{moe}} + \Delta_{\text{array}} + \Delta_{\text{throw}} + \Delta_{\text{base}}$

$\Delta \text{vibrap} + \Delta \text{array} + \Delta \text{brown} + \Delta \text{base}$

$$\Delta_{\parallel \text{mos}}^2 + \Delta_{\perp \text{mos}}^2$$

$$\Delta_{\text{submap}}^2$$

$$n_{cal} = \text{ceil}\left(\frac{e_{tel} t_{tel}}{d_{cal} + t_{cal}}\right),$$



$$t_{\text{source}} = \frac{E_{\text{tel}} t_{\text{tel}} - n_{\text{cal}} t_{\text{cal}}}{n_{\text{source}}}.$$

www.globe

ca1/e1



WORLD

evbcbad and max are fixed;

$$t_{\text{scan}} = \gamma_{\text{max}} (t_{\text{subscan}} + t_{\text{overhead}}) + t_{\text{scan}}.$$

$$t_{\text{subscan}} = \frac{\Delta_{\text{tot}}}{v_{\parallel}} ,$$

$$n_{\text{subscan}}^{\text{max}} = \text{floor} \left(\frac{d_{\text{scan}} - t_{\text{scan}}}{t_{\text{subscan}} + t_{\text{overhead}}^{\text{subscan}}} \right),$$



if $\frac{MA}{subscan} > 1$, then send an error message advising to increase $subscan$.



$$t_{\text{scan}} = \gamma_{\text{max}} (t_{\text{subscan}} + t_{\text{overhead}}) + t_{\text{scan}}.$$

$$n_{\text{scan}} = \text{floor} \left(\frac{t_{\text{source}}}{t_{\text{scan}}} \right),$$

$$n_{\text{subscan}}^{\text{res}} = \text{floor} \left(\frac{t_{\text{source}} - n_{\text{scan}} t_{\text{scan}} - t_{\text{overhead}}}{t_{\text{subscan}} + t_{\text{overhead}}} \right),$$

$$n_{\text{tot}} = n_{\text{scad}} n_{\text{max}} + n_{\text{res}}$$

$$n_{\text{subscan}}^{\text{cover}} = \text{ceil} \left(\frac{\Delta_{\text{tot}}}{\delta} + 1 \right),$$

$$n_{\text{cover}} = \text{floor} \left(\frac{n_{\text{subscan}}^{\text{tot}}}{n_{\text{subscan}}^{\text{cover}}} \right),$$

if $\text{cover} < 1$, then send an error message advising to increase cov ;

[illegible]

$$n_{\text{scan}} = \text{floor} \left(\frac{n_{\text{subscan}}^{\text{tot}}}{n_{\text{subscan}}^{\text{max}}} \right),$$

$$res_{tot} = res_{max}$$

$$t = (n_{\text{max}} + n_{\text{res}}) \cdot \text{subcan}$$

$$\sigma = \frac{\text{NEFD} \exp(A \tau_{\text{zen}})}{\sqrt{t_{\sigma}}}.$$

$$\sigma = \alpha \exp(A \tau_{\text{zen}}) \sqrt{\frac{\delta v_{\parallel}}{n_{\text{cover}}}} \, ;$$

$$t_{\text{source}} = n_{\text{scan}} t_{\text{scan}} + [n_{\text{res}} (t_{\text{subscan}} + t_{\text{overhead}}) + t_{\text{scan}}]$$

$$n_{cal} = \text{ceil}\left(\frac{n_{source} t_{source}}{d_{cal}}\right),$$

$$t_{tel} = \frac{n_{source} t_{source} + n_{cal} t_{cal}}{\epsilon_{tel}}.$$

$$t_{\sigma} = \left[\frac{\text{NEED} \exp(A \tau_{zen})}{\sigma} \right]^2,$$

$$n_{\text{subscan}}^{\text{tot}} = \text{ceil} \left(\frac{t_{\sigma}}{t_{\text{subscan}}} \right).$$

$$n_{\rm cover} = \text{floor} \left\{ \delta v_{\parallel} \left[\frac{a \exp(A \tau_{\rm zen})}{\sigma} \right]^2 \right\},$$

if ever, then send an invitation to discuss,

$$n_{\text{subscan}}^{\text{cover}} = \text{ceil} \left(\frac{\Delta_{\text{tot}}}{\delta} + 1 \right),$$

toot
= noot
noot noot noot















100%

dead
boy







