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# Quantitative Reasoning, Algebra, and Statistics

Sample Questions

7KH &ROOHJH %RDUG LV D PLVVLRQ GULYHQ QRW IRU SUR@W RUJDQL]DWLRQ WK  
WR FROOHJH VXFFHVV DQG RSSRUWXQLW\ )RXQG HG LQ WKH &ROOHJH %RD  
H[SDQG DFFHVV WR KLJKHU HGXFDWLRQ 7RGD\ WKH PHPEHUVKLS DVVRFLDWLR  
RYHU RI WKH ZRUOG V OHDGLQJ HGXFDWLRQ LQVWLWXWLRQV DQG LV GHGL  
H[FHOHQFH DQG HTXLW\ LQ HGXFDWLRQ (DFK \HDU WKH &ROOHJH %RDUG KH  
VHYHQ PLOOLRQ VWXGHQWV SUHSDUH IRU D VXFFHVVIXO WUDQVLWLRQ WR FRO  
DQG VHUYLFHV LQ FROOHJH UHGLQHV DQG FROOHJH VXFFHVV LQFOXGLQJ W  
\$GYDQFHG 3ODFPHQW 3URJUDP 7KH RUJDQL]DWLRQ DOVR VHUYHV WKH HGXF  
WKURXJK UHVHDFK DQG DGYRFD\ RQ EHKDOI RI VWXGHQWV HGXFDWRUV DQ  
)RU IXUWKHU LQIRUPDWLRQ YLVLW [collegeboard.org](http://collegeboard.org)

The Next-GHQHUDWLRQ 4XDQWLWDWLYH 5HDVRLQJ \$OJHEUD DQG 6WDWLWLFV S  
FRPSXWHU DGDSWLYH DVVHVPHQW RI WHVW WDNHUV DELOLW\ IRU VHOHFWHG  
4XHVWLRQV ZLOO IRFXV RQ D UDQJH RI WRSLFV LQFOXGLQJ FRPSXWLQJ ZLWK U  
DSSO\LQJ UDWLRV DQG SURSRUWLRQDO UHVRQLQJ FUHDWLQJ OLQH DU H[SUH  
JUDSKLQJ DQG DSSO\LQJ OLQH DU HTXDWLRQV XQGHVWDQGLQJ SUREDELOLW\  
LQWHUSUHWLQJ JUDSKLFD GLVSOD\ ,Q DGGLWLRQ TXHVWLRQV PD\ DVVHV  
YLD FRPSXWDWLRQDO RU °XHQF\ VNLOOV FRQFHSWXDO XQGHVWDQGLQJ RU W  
PDWKHPDWLFV SUHVHQWHG LQ D FRQWH[W \$OO TXHVWLRQV DUH PXOWLSOH FK  
DSSHU GLVFUHWHO\ VWDQG DORQH DFURVV WKH DVVHVPHQW 7KH IROORZL  
FDWHJRULHV DUH DVVHVPHQW

- f 5DWLRQDO QXPEHUV
- f 5DWLR DQG SURSRUWLRQDO UHODWLRQVKLSV
- f ([SRQH QWV
- f \$OJHEUDLF H[SUHVVLRQV
- f /LQH DU HTXDWLRQV
- f /LQH DU DSSOLFDWLRQV
- f 3UREDELOLW\ DQG VHWV
- f 'HVFULSWLYH VWDWLWLFV
- f \*HRPHWU\ FRQFHSWV






17. The elevation at the summit of Mount Whitney is 4,418 meters above sea level. Climbers begin at a trailhead that has an elevation of 2,550 meters above sea level. What is the change in elevation, to the nearest foot

1. D
2. C
3. D
4. \$
5. \$
6. D
7. C
8. B
9. B
10. \$
11. C
12. \$
13. D
14. C
15. B
16. C
17. C
18. B
19. B
20. D

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7. Choice C is correct.



15. Choice B is correct.