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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

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

- f 5DWLRQDO QXPEHUV
- f 5DWLR DQG SURSRUWLQDO UHODWLQV
- f ([SRQHQWV
- f \$OJHEUDLF H[SUHVVLRQV
- f /LQH DU HTXDWLQV
- f /LQH DU DSSOLFDWLQV
- 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.