Unit 5 Test 1 review
Answer Section

1. ANS: A PTS: 1 DIF: 2 TOP: Module 10 Quiz
   DOK: DOK 2
2. ANS: J PTS: 1 DIF: 2 TOP: Module 10 Quiz
   DOK: DOK 2
3. ANS: B PTS: 1 DIF: 2 STA: MCC9-12.F.TF.2
   TOP: Module 10 Quiz DOK: DOK 2
4. ANS: H PTS: 1 DIF: 2 STA: MCC9-12.F.TF.2
   TOP: Module 10 Quiz DOK: DOK 2
5. ANS: A PTS: 1 DIF: 2 STA: MCC9-12.F.TF.2
   TOP: Module 10 Quiz DOK: DOK 2
6. ANS: F PTS: 1 DIF: 2
   STA: MCC9-12.F.TF.1 | MCC9-12.F.TF.2 TOP: Module 10 Quiz
   DOK: DOK 2
7. ANS: B PTS: 1 DIF: 2
   STA: MCC9-12.F.TF.1 | MCC9-12.F.TF.2 TOP: Module 10 Quiz
   DOK: DOK 2
8. ANS: F PTS: 1 DIF: 2
   STA: MCC9-12.F.TF.1 | MCC9-12.F.TF.2 TOP: Module 10 Quiz
   DOK: DOK 2
9. ANS: D PTS: 1 DIF: 2 STA: MCC9-12.F.TF.8
   TOP: Module 10 Quiz DOK: DOK 2
10. ANS:
    $\frac{5}{3}$

    PTS: 1 DIF: 2 TOP: Module 10 Quiz
    DOK: DOK 2
11. ANS:
    $\frac{5}{4}$

    PTS: 1 DIF: 2 TOP: Module 10 Quiz
    DOK: DOK 2
12. ANS:
    $-180°$

    PTS: 1 DIF: 2 STA: MCC9-12.F.TF.2
    TOP: Module 10 Quiz DOK: DOK 2
13. ANS:
    $-270°$

    PTS: 1 DIF: 2 STA: MCC9-12.F.TF.2
    TOP: Module 10 Quiz DOK: DOK 2
14. ANS:
    $425°$ and $-295°$

PTS: 1 DIF: 2 STA: MCC9-12.F.TF.2
TOP: Module 10 Quiz DOK: DOK 2

15. ANS:
260°

PTS: 1 DIF: 2 STA: MCC9-12.F.TF.2
TOP: Module 10 Quiz DOK: DOK 2

16. ANS:
–2

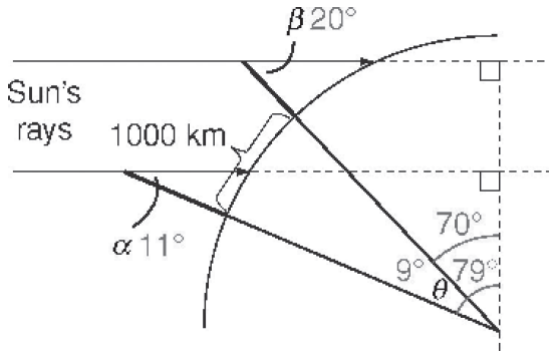
PTS: 1 DIF: 2 STA: MCC9-12.F.TF.8
TOP: Module 10 Quiz DOK: DOK 2

17. ANS:

Part A: $\alpha = \tan^{-1}\left(\frac{5.8}{30}\right);\ \alpha \approx 11°$

Part B: $\beta = \tan^{-1}\left(\frac{7.3}{20}\right);\ \beta \approx 20°$

Part C: $\theta \approx 9°$



Sample explanation: θ equals the difference between the larger angles in the two right triangles. Each of the larger angles can be found by using the fact that the sum of the acute angles in a right triangle is 90°.

Part D: $\text{circumference} \approx \frac{360°}{9°}(1000) = 40,000 \text{ km}$

Part E: Abby and Bill did very well; a difference of only 8 km is remarkably close.

PTS: 1 DIF: 2 TOP: Unit 5 Performance Task
DOK: DOK 2