F.TF.A.1: Radian Measure 4

1 To the *nearest thousandth*, what is 23°50', in radian measure?
1) 0.416 2) 0.415 3) 0.410 4) 0.409

2 Determine, to the *nearest minute*, the number of degrees in an angle whose measure is 2.5 radians.

3 Convert 3 radians to degrees and express the answer to the *nearest minute*.

4 Find, to the *nearest minute*, the angle whose measure is 3.45 radians.

5 Determine, to the *nearest minute*, the degree measure of an angle of $\frac{5}{11}\pi$ radians.

F.TF.A.1: Radian Measure 4
Answer Section

1 ANS: 1

$23\frac{5}{6}\left(\frac{\pi}{180}\right) \approx 0.416$

REF: 061618a2

2 ANS:

$2.5\left(\frac{180}{\pi}\right) = 143°14'$

REF: 081528a2

3 ANS:

$3 \times \frac{180}{\pi} \approx 171.89° \approx 171°53'$

REF: 011335a2

4 ANS:

197º40'. $3.45 \times \frac{180}{\pi} \approx 197°40'$

REF: fall0931a2

5 ANS:

$\frac{5\pi}{11}\left(\frac{180}{\pi}\right) \approx 81°49'$

REF: 011531a2