

De la Troisième à la Seconde

Geo 5

1) $\frac{1}{4}$ de 360 = 90
 $\frac{7}{6}$ de 360 = $7 \times 60 = 420$
 $\frac{1}{3}$ de $2\pi = \frac{2}{3}\pi$
 $\frac{5}{6}$ de $2\pi = \frac{5}{3}\pi$

2) $\frac{3}{4} \times 360 = 270$
 $\frac{2}{5} \times 360 = 4 \times 36 = 144$
 $\frac{1}{4}$ de $2\pi = \frac{\pi}{2}$
 $\frac{7}{6}$ de $2\pi = \frac{7 \times 2\pi}{2 \times 3} = \frac{7\pi}{3}$

2) $30 = \frac{360}{12}$
 $45 = \frac{360}{8}$
 $60 = \frac{360}{6}$
 $90 = \frac{360}{4}$

$180 = \frac{360}{2}$
 $270 = \frac{3}{4} \times 360$
 $120 = \frac{360}{3}$
 $480 = \frac{4}{3} \times 360$

3) 1) $\frac{2}{7} \times 2\pi$

3) $\frac{1}{3}$ de 2π

5) $\frac{3}{8}$ de 2π

7) $\frac{1}{12}$ de 2π

2) $\frac{8\pi}{5} = \frac{4}{5} \times 2\pi$

4) $\frac{5}{9}$ de 2π

6) $\frac{7}{10}$ de 2π

8) $\frac{3}{10}$ de 2π

4) $2014 = 360 \times 5 + 214$; $2014\pi = 1007 \times 2\pi$; $12345 = 360 \times 34 + 105$
 $12345\pi = 2\pi \times 6172 + \pi$

5) 1) 135° 2) 85° 3) 24° 4) 50° 5) 70° 6) 44°
 7) 34°