

16th April

Higher 5-a-day



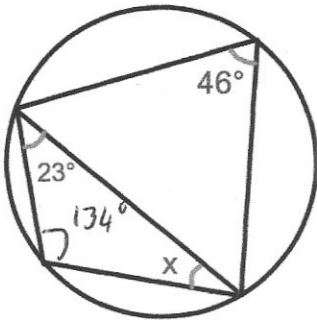
Corbettmaths

Write the following numbers in order, from smallest to largest

$58.9 \times 10^3$       fifty thousand

6000       $5.98 \times 10^4$

6000  
 fifty thousand (50000)  
 $58.9 \times 10^3$  (58900)  
 $5.98 \times 10^4$  (59800)

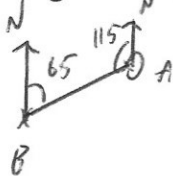


Find x

$180 - 46 = 134$   
 $180 - 134 - 23 = 23^\circ$

The bearing of A from B is  $065^\circ$

Find the bearing of B from A.



$360 - 115 = 245^\circ$

Route 1  
 52 miles at 60mph

$t = \frac{d}{s}$



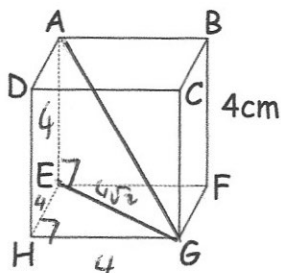
Route 2  
 43 miles at 50mph

Which route will take less time and by how long?

Route 1  $t = \frac{52}{60} = 0.86$  hours  
 = 52 minutes

Route 2  $t = \frac{43}{50} = 0.86$  hours  
 = 51 mins 36 seconds

Route 2 by 24 seconds



Shown is a cube.  
 Calculate length AG.

$EG^2 = 4^2 + 4^2$

$EG^2 = 32$

$EG = 4\sqrt{2}$

$AG^2 = (4\sqrt{2})^2 + 4^2$

$AG^2 = 48$        $AG = 6.9282$  cm