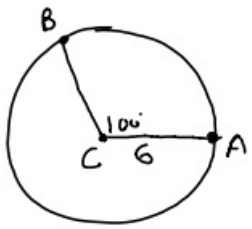
1-30-18

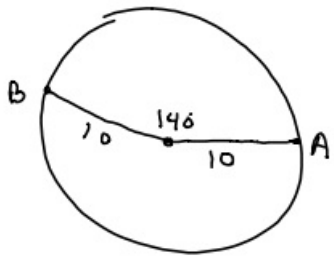
① 

$\overset{\frown}{AB}$ =

$\frac{100}{360} \cdot 12\pi$ ← Circumference or whole

↑ fractional part

≈ 10.5

② 

$\overset{\frown}{AB}$ = ?

$= \frac{140}{360} \cdot 20\pi$

≈ 24.4

③ 

12 inch pizza

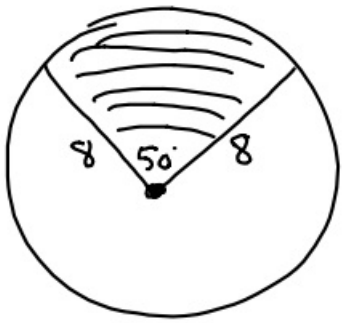
How many in^2 is that slice?

$\frac{100}{360} \cdot \text{Area}$

$\frac{100}{360} \cdot \pi \cdot 6^2$

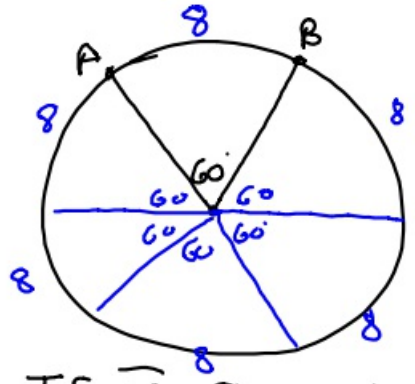
$31.4\ in^2$

(4)



$\frac{50}{360} \cdot \pi \cdot 8^2 \approx 27.9 \text{ in}^2$

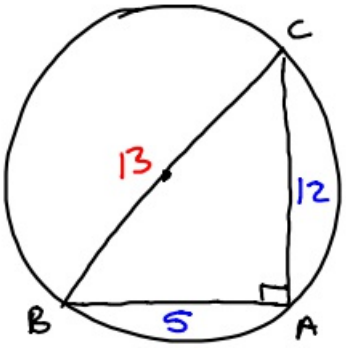
(5)



If $\overset{\frown}{AB} = 8$ cm, what is the circumference of the circle?

48 cm

(6)



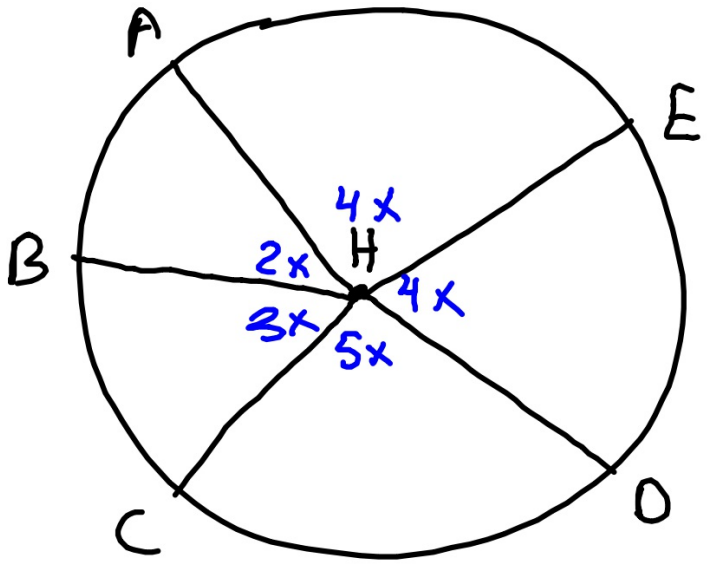
$5^2 + 12^2 = c^2$

$c = 13$

If AB = 5 and AC = 12, what is the exact circumference of the circle?

$C = 13\pi$

7



$2x+3x+5x+4x+4x$

$= 360$

$18x = 360$

$x = 20$

$\angle AHE = 4x$

$\angle AHB = 2x$

$\angle BHC = 3x$,

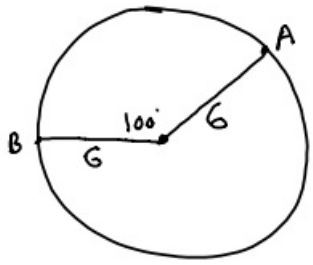
$\angle CHD = 5x$

$\angle DHE = 4x$

what is x?

1-30-18 6th Geo

①

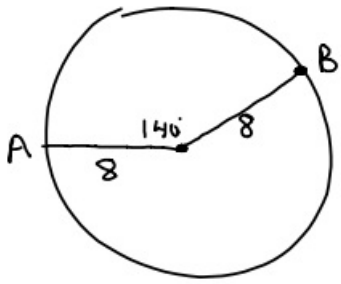


$\overset{\frown}{AB} = ?$

$\frac{100}{360} \cdot \pi \cdot 12$

≈ 10.5

②

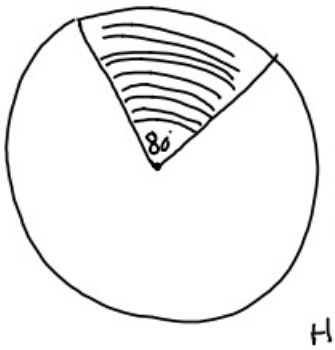


$\overset{\frown}{AB} = ?$

$\frac{140}{360} \cdot \pi \cdot 16$

≈ 19.5

③



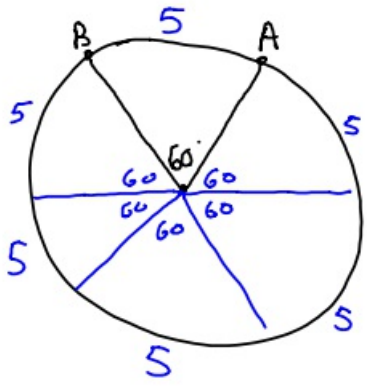
From this 12 inch pizza there is my slice. How many in^2 did I get?

$\frac{80}{360} \cdot Area$

$\frac{80}{360} \cdot \pi \cdot 6^2$

$25.1\ in^2$

④

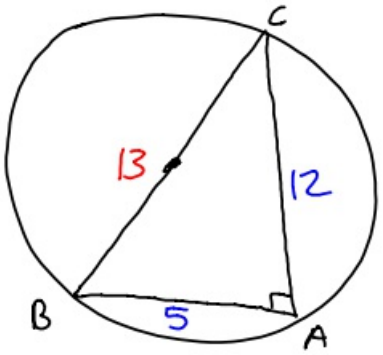


$\overset{\frown}{AB} = 5\text{cm}$

What is the circumference of the circle?

30 cm

⑤



$5^2 + 12^2 = c^2$

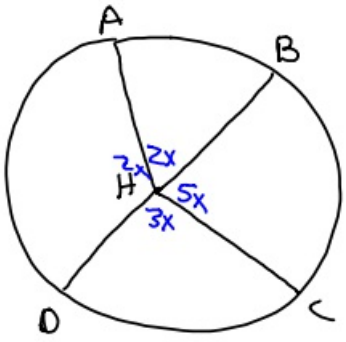
$c = 13$

If AB = 5 and AC = 12, what is the <u>exact</u> circumference of the circle?

$C = \pi \cdot 13$

$= 13\pi$

⑥



$\angle AHB = 2x$

$\angle BHC = 5x$

$\angle CHD = 3x$

$\angle DHA = 2x$

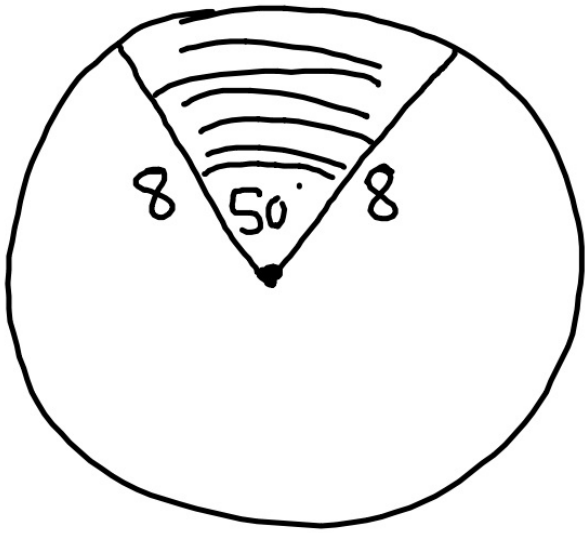
What is x?

$2x + 2x + 5x + 3x = 360$

$12x = 360$

$x = 30$

7)



$$\frac{50}{360} \cdot \pi \cdot 8^2 \approx 27.9$$