

**Find the exact diameter of each circle.**

1) area =  $81\pi$  in<sup>2</sup>

2) area =  $144\pi$  mi<sup>2</sup>

3) area =  $16\pi$  in<sup>2</sup>

4) area =  $49\pi$  yd<sup>2</sup>

5) area =  $121\pi$  km<sup>2</sup>

6) area =  $9\pi$  yd<sup>2</sup>

7) area =  $36\pi$  cm<sup>2</sup>

8) area =  $4\pi$  cm<sup>2</sup>

9) area =  $25\pi$  in<sup>2</sup>

10) area =  $64\pi$  mi<sup>2</sup>

**Find the exact circumference of each circle.**

11) area =  $64\pi$  cm<sup>2</sup>

12) area =  $121\pi$  in<sup>2</sup>

13) area =  $16\pi$  mi<sup>2</sup>

14) area =  $49\pi$  km<sup>2</sup>

15) area =  $100\pi$  yd<sup>2</sup>

16) area =  $9\pi$  m<sup>2</sup>

17) area =  $36\pi$  ft<sup>2</sup>

18) area =  $81\pi$  m<sup>2</sup>

19) area =  $144\pi$  in<sup>2</sup>

20) area =  $25\pi$  mi<sup>2</sup>

**Calculate the exact size of the area of each circle.**

21) circumference =  $16\pi$  in

22) circumference =  $22\pi$  yd

23) circumference =  $6\pi$  km

24) circumference =  $14\pi$  yd

25) circumference =  $20\pi$  cm

26) circumference =  $4\pi$  ft

27) circumference =  $10\pi$  cm

28) circumference =  $18\pi$  in

29) circumference =  $24\pi$  mi

30) circumference =  $8\pi$  km

**Find the exact diameter of each circle.**

1) area =  $81\pi$  in<sup>2</sup>

18 in

2) area =  $144\pi$  mi<sup>2</sup>

24 mi

3) area =  $16\pi$  in<sup>2</sup>

8 in

4) area =  $49\pi$  yd<sup>2</sup>

14 yd

5) area =  $121\pi$  km<sup>2</sup>

22 km

6) area =  $9\pi$  yd<sup>2</sup>

6 yd

7) area =  $36\pi$  cm<sup>2</sup>

12 cm

8) area =  $4\pi$  cm<sup>2</sup>

4 cm

9) area =  $25\pi$  in<sup>2</sup>

10 in

10) area =  $64\pi$  mi<sup>2</sup>

16 mi

**Find the exact circumference of each circle.**

11) area =  $64\pi$  cm<sup>2</sup>

$16\pi$  cm

12) area =  $121\pi$  in<sup>2</sup>

$22\pi$  in

13) area =  $16\pi$  mi<sup>2</sup>

$8\pi$  mi

14) area =  $49\pi$  km<sup>2</sup>

$14\pi$  km

15) area =  $100\pi$  yd<sup>2</sup>

$20\pi$  yd

16) area =  $9\pi$  m<sup>2</sup>

$6\pi$  m

17) area =  $36\pi$  ft<sup>2</sup>

$12\pi$  ft

18) area =  $81\pi$  m<sup>2</sup>

$18\pi$  m

19) area =  $144\pi$  in<sup>2</sup>

$24\pi$  in

20) area =  $25\pi$  mi<sup>2</sup>

$10\pi$  mi

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$144\pi$  mi<sup>2</sup>

30) circumference =  $8\pi$  km

$16\pi$  km<sup>2</sup>