1. Grade 7 students were surveyed to determine how many hours a day they spent on various activities. The results are shown in the circle graph below. Find the measure of each central angle in the circle graph.
a. Sleeping
b. Eating

## How Students Spend Their Time


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2. Name the minor arc and find its measure.

[A] $m \widehat{A D B}=245$
[B] $m \widehat{A D B}=230$
[C] $m \overparen{A B}=115$
[D] $m \overparen{A B}=245$
3. Name the major arc and find its measure.

4. In circle $O, \overline{A B}$ is a diameter and $m \overparen{B C}=50$. Find $m \overparen{C A B}$.

[A] 50
[B] 130
[C] 310
[D] 230
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5. Given: $\overline{A B}$ is the diameter of circle $O$ and $m \overparen{B C}=49$. Find $m \overparen{C A B}$.

6. Find the circumference of a circle with a diameter of 7 cm . Use $\pi=3.14$.
[A] 10.14 cm
[B] 21.98 cm
[C] 43.96 cm
[D] 10.99 cm
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7. Find the circumference of the circle. Use $\frac{22}{7}$ as an approximation of $\pi$.

[A] $9 \frac{23}{28} \mathrm{~cm}$
[B] $39 \frac{2}{7} \mathrm{~cm}$
[C] $19 \frac{9}{14} \mathrm{~cm}$
[D] $20 \frac{9}{14} \mathrm{~cm}$
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8. Find the circumference of the circle. Use 3.14 as an approximation of $\pi$.

9. For a circle of radius 13 feet, find the arc length of a central angle of $24^{\circ}$. Leave your answer in terms of $\pi$.

10 . For a circle of radius 6 feet, find the arc length of a central angle of $12^{\circ}$.
[A] $\frac{6}{5} \pi \mathrm{ft}$
[B] $\frac{4}{5} \pi \mathrm{ft}$
[C] $72 \pi \mathrm{ft}$
[D] $\frac{2}{5} \pi \mathrm{ft}$
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11. If the circumference of a circle is $48 \pi \mathrm{~cm}$, what is the radius?
12. Jill ran 6 times around a circular track that has a diameter of 50 m . Approximately how far did she run? Use $\pi=3.14$ and round your answer to the nearest meter.
[A] 1413 m
[B] 1963 m
[C] 471 m
[D] 942 m
13. Find the circumference of the circle in terms of $\pi$.

[A] $324 \pi$ in.
[B] $36 \pi$ in. ${ }^{2}$
[C] $34 \pi$ in.
[D] $36 \pi$ in.
14. A team in science class placed a chalk mark on the side of a wheel and rolled the wheel in a straight line until the chalk mark returned to the same position. The team then measured the distance the wheel had rolled and found it to be 40 cm . To the nearest tenth, what is the area of the wheel?
15. The circumference of a circle is $68 \pi \mathrm{~cm}$. Find the diameter, the radius, and the length of an arc of $90^{\circ}$.
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16. A bicycle mechanic wants to put a strip of plastic between the tube and tire of a 26 -inch diameter bicycle tire. To the nearest inch, how long should the strip of plastic be?
17. The diameter of a basketball rim is 18 inches. A standard basketball has a circumference of 30 inches. About how much room is there between the ball and the rim in a shot in which the ball goes in exactly in the center of the rim?
[A] 8.45 in .
[B] 4.78 in.
[C] 4.2 in .
[D] none of these
18. What is the minor arc measure formed by the hour and minute hands at 12:30?

[A] $15^{\circ}$
[B] $345^{\circ}$
[C] $165^{\circ}$
[D] $195^{\circ}$
[1] a. 118.8
b. 28.8
[2] [C]
[3] $m \widehat{A D B}=310$
[4] [C]
[5] 311
[6] [B]
[7] [C]
[8] 26.376 cm
[9] $\frac{26}{15} \pi \mathrm{ft}$
[10] [D]
[11] 24 cm
[12] [D]
[13] [D]
[14] $127.3 \mathrm{~cm}^{2}$
[15] $68 \mathrm{~cm} ; 34 \mathrm{~cm} ; 17 \pi \mathrm{~cm}$
[16] 82 in.
[17] [C]
[18] [C]

