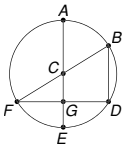
LESSON 8-4

Practice A

Properties of Circles

Use circle C. Choose the letter for the best answer.

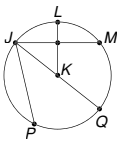


1. Which of the following is a radius?
   A $\overline{BD}$ **C** $\overline{CE}$
   B $\overline{FB}$ **D** $\overline{GE}$

2. Which of the following is a diameter?
   F $\overline{FD}$ **H** $\overline{BC}$
   G $\overline{AE}$ **J** $\overline{CG}$

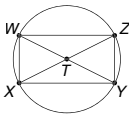
3. Which of the following is a chord?
   A $\overline{FD}$ **C** $\overline{BC}$
   B $\overline{CA}$ **D** $\overline{GF}$

Name the parts of circle *K*.



4. radii $\overline{KL}, \overline{KJ}, \overline{KQ}$
5. diameters $\overline{JQ}$
6. chords $\overline{JM}, \overline{JP}, \overline{JQ}$

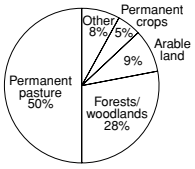
Name the parts of circle *T*.



7. radii $\overline{WT}, \overline{XT}, \overline{YT}, \overline{ZT}$
8. diameters $\overline{WY}, \overline{XZ}$
9. chords $\overline{WX}, \overline{WY}, \overline{WZ}, \overline{XY}, \overline{XZ}, \overline{YZ}$

Use the circle graph.

New Zealand Land Use



10. The circle graph shows the uses of land in New Zealand. Find the central angle of the sector that shows the percent of land New Zealand uses for permanent pastures.
    180°

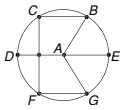
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LESSON 8-4

Practice B

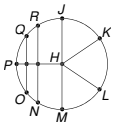
Properties of Circles

Name the parts of circle *A*.



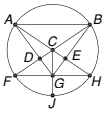
1. radii $\overline{AB}, \overline{AD}, \overline{AE}, \overline{AG}$
2. diameters $\overline{DE}$
3. chords $\overline{CF}, \overline{FG}, \overline{CB}, \overline{DE}$

Name the parts of circle *H*.



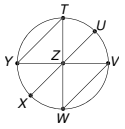
4. radii $\overline{HP}, \overline{HJ}, \overline{HK}, \overline{HL}, \overline{HM}$
5. diameters $\overline{JM}$
6. chords $\overline{OQ}, \overline{NR}, \overline{JM}$

Name the parts of circle *C*.



7. radii $\overline{CA}, \overline{CB}, \overline{CF}, \overline{CJ}, \overline{CH}$
8. diameters $\overline{AH}, \overline{FB}$
9. chords $\overline{AB}, \overline{FH}, \overline{AH}, \overline{FB}$

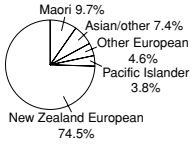
Name the parts of circle *Z*.



10. radii $\overline{ZY}, \overline{ZT}, \overline{ZU}, \overline{ZV}, \overline{ZW}, \overline{ZX}$
11. diameters $\overline{TW}, \overline{YV}, \overline{XU}$
12. chords $\overline{YT}, \overline{WV}, \overline{TW}, \overline{YV}, \overline{XU}$

Use the circle graph.

New Zealand Population



13. The circle graph shows the distribution of ethnic groups in New Zealand. Find the central angle measure of the sector that shows the percent of New Zealanders who are Maori.
    34.92°

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LESSON 8-4

Practice C

Properties of Circles

Use the circle graph.

Vitamin Poll

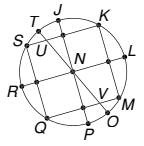


1. An Internet poll asked people if they believe that taking vitamins will make them live longer. The circle graph shows the response. Find the central angle of the sector that shows the percent of people who answered "No."
   57.6°

2. Find the central angle of the sector that shows the percent of people who answered "Yes."
   255.6°

3. Find the central angle of the sector that shows the percent of people who answered "Not sure."
   46.8°

Name the parts of circle *N*.



4. radii $\overline{NL}, \overline{NO}, \overline{NP}, \overline{NR}, \overline{NT}, \overline{NJ}$
5. diameters $\overline{RL}, \overline{JP}, \overline{TO}$
6. chords $\overline{SK}, \overline{KM}, \overline{MQ}, \overline{QS}, \overline{RL}, \overline{JP}, \overline{TO}$
7. If $\overline{SK} \parallel \overline{QM}$ and $m\angle NUK = 58°$, what is the measure of $\angle NVQ$?
   58°
8. If $m\angle NUK = 58°$, what is the measure of $\angle SUN$?
   122°

Use the clock for Exercises 9 and 10.



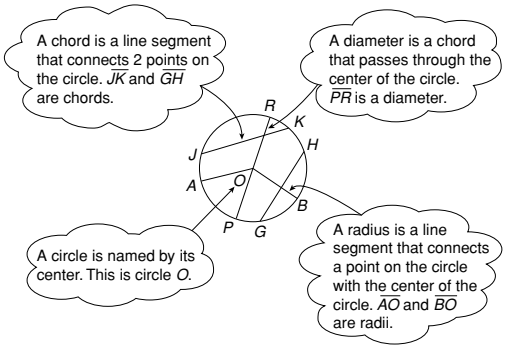
9. Find the central angle measure between the minute and hour hands on the clock.
   72°
10. Find the central angle measure between the second and hour hands on the clock.
    132°

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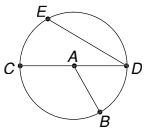
LESSON 8-4

Reteach

Properties of Circles

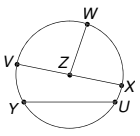


Use circle *A* for Exercises 1–4.



1. $\overline{AB}$ is a radius.
2. $\overline{CD}$ is a diameter and chord.
3. $\overline{DE}$ is a chord.
4. $\overline{CA}$ is a radius.

Use circle *Z* for Exercises 5–7.



5. Name 3 radii of circle *Z*.
   $\overline{ZV}, \overline{ZW}, \overline{ZX}$
6. Name 2 chords of circle *Z*.
   $\overline{YU}, \overline{VX}$
7. Name the diameter of circle *Z*.
   $\overline{VX}$

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