ch10.2

What Do You Call a Skeleton in the Closet?

Find each answer in the answer columns below. Write the letter next to the answer in the box containing the exercise number. NOTE: The same answer can be used for more than one exercise.

In Exercises 1-10, fill in the blanks, using the figure at the right as needed.

E 1. The points on a circle are all the same distance from the center.

S 2. A line segment from the center to any point on a circle is a radius.

I 3. A line segment with both endpoints on a circle is a chord.

D 4. A chord that passes through the center of a circle is a diameter.

A 5. The length of a radius is half the length of a diameter.

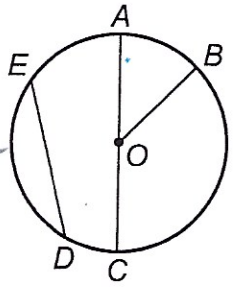
E 6. An angle whose vertex is at the center of a circle is a central angle.

I 7. Part of a circle, such as $\overset{\frown}{AE}$ or $\overset{\frown}{DEB}$, is an arc.

T 8. An arc with a degree measure less than 180° is a minor arc.

N 9. An arc with a degree measure greater than 180° is a major arc.

E 10. The set of points in a plane at a fixed distance from a given point is a circle.



EXTRA Using the figure, name any radius DB, chord ED, diameter AC, central angle ∠AOB, major arc $\overset{\frown}{BAC}$, and minor arc $\overset{\frown}{AB}$.

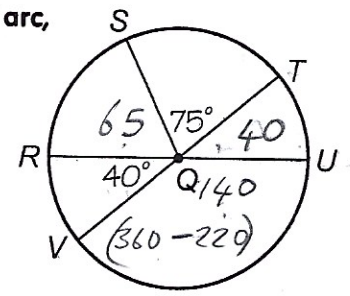
In Exercises 11-18, find the measure of the angle or arc, using the figure at the right.

A 11. ∠TQU 40° R 12. ∠VQU 140°

E 13. ∠RQS 65° E 14. $\overset{\frown}{RS}$ 65°

A 15. $\overset{\frown}{TU}$ 40° L 16. $\overset{\frown}{UVT}$ 320°

R 17. $\overset{\frown}{UV}$ 140° H 18. $\overset{\frown}{VSU}$ 220°



180 − (75 + 40)
180 − 115
65

180 − (75 / 65)
180 − 140
40

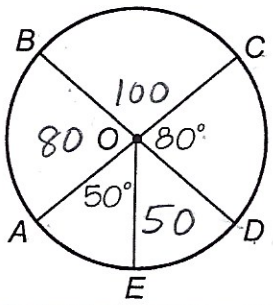
In Exercises 19-26, find the measure of the angle or arc, using the figure at the right.

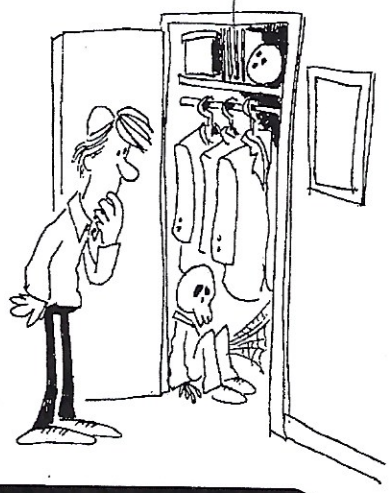
S 19. ∠BOC 100° N 20. ∠EOD 50°

Y 21. $\overset{\frown}{BA}$ 80° N 22. $\overset{\frown}{ED}$ 50°

K 23. $\overset{\frown}{EBD}$ 310° D 24. $\overset{\frown}{BCA}$ 280°

S 25. $\overset{\frown}{ACD}$ 260° W 26. $\overset{\frown}{BD}$ 180°





ANSWERS • The same answer may be used more than once.

D diameter	N major arc	A 40°	S 100°	M 250°
I arc	A half	U 45°	F 135°	S 260°
S radius	E center	N 50°	R 140°	D 280°
E circle	T minor arc	E 65°	W 180°	K 310°
I chord	E central angle	Y 80°	H 220°	L 320°

16	11	19	8	21	13	5	17	2	18	7	24	10	15	20	4	25	1	14	23	26	3	9	22	6	12
L	A	S	T	Y	E	A	R	S	H	I	D	E	A	N	D	S	E	E	K	W	I	N	N	E	R

(last year's hide and seek winner)