

# Angles and Angle Relationships

Angle measure, angle types, and early relationships like complementary, supplementary, and vertical angles.

Name \_\_\_\_\_ Date \_\_\_\_\_

32 main 2-up grid 11 pages visible side quests

## Completion Reward



Shown here as a small pack artifact, not a preview destination.

### 1. An angle that measures 90 degrees is called what?

- A. An acute angle
- B. A right angle
- C. An obtuse angle
- D. A straight angle

### 1.1. Which object has two endpoints?

- A. Line
- B. Ray
- C. Segment
- D. Plane

### 1.2. Angles that add to 90 degrees are:

- A. supplementary
- B. vertical
- C. complementary
- D. congruent

### 1.3. Angles that add to 180 degrees are:

- A. supplementary
- B. complementary
- C. adjacent only
- D. acute

### 1.4. If a triangle has angles 50 degrees and 60 degrees, the third angle is:

- A. 70 degrees
- B. 80 degrees
- C. 90 degrees
- D. 110 degrees

### 1.5. Perimeter measures:

- A. space inside a figure
- B. distance around a figure
- C. slant height only
- D. number of sides

### 2. Which measure could be an acute angle?

- A. 90 degrees
- B. 120 degrees
- C. 35 degrees
- D. 180 degrees

### 2.1. Which object has two endpoints?

- A. Line
- B. Ray
- C. Segment
- D. Plane

### 2.2. Angles that add to 90 degrees are:

- A. supplementary
- B. vertical
- C. complementary
- D. congruent

### 2.3. Angles that add to 180 degrees are:

- A. supplementary
- B. complementary
- C. adjacent only
- D. acute

### 2.4. If a triangle has angles 50 degrees and 60 degrees, the third angle is:

- A. 70 degrees
- B. 80 degrees
- C. 90 degrees
- D. 110 degrees

### 2.5. Perimeter measures:

- A. space inside a figure
- B. distance around a figure
- C. slant height only
- D. number of sides

### 3. Which measure could be an obtuse angle?

- A. 45 degrees
- B. 90 degrees
- C. 120 degrees
- D. 180 degrees

### 3.1. Which object has two endpoints?

- A. Line
- B. Ray
- C. Segment
- D. Plane

### 3.2. Angles that add to 90 degrees are:

- A. supplementary
- B. vertical
- C. complementary
- D. congruent

### 3.3. Angles that add to 180 degrees are:

- A. supplementary
- B. complementary
- C. adjacent only
- D. acute

### 3.4. If a triangle has angles 50 degrees and 60 degrees, the third angle is:

- A. 70 degrees
- B. 80 degrees
- C. 90 degrees
- D. 110 degrees

### 3.5. Perimeter measures:

- A. space inside a figure
- B. distance around a figure
- C. slant height only
- D. number of sides

**4. When two lines cross, what is true about vertical angles?**

- A. They add to 90
- B. They add to 360
- C. They are equal in measure
- D. They are always acute

**4.3. Angles that add to 180 degrees are:**

- A. supplementary
- B. complementary
- C. adjacent only
- D. acute

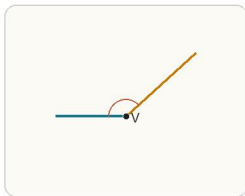
**5. What is the measure of a straight angle?**

- A. 90 degrees
- B. 360 degrees
- C. 180 degrees
- D. 45 degrees

**5.3. Angles that add to 180 degrees are:**

- A. supplementary
- B. complementary
- C. adjacent only
- D. acute

**6. What is always true about vertical angles?**



When two lines intersect, the opposite angles form a vertical pair and always have equal measure.

- A. They sum to 90 degrees
- B. They are always acute
- C. They share a side
- D. They are equal in measure

**6.3. Angles that add to 180 degrees are:**

- A. supplementary
- B. complementary
- C. adjacent only
- D. acute

**4.1. Which object has two endpoints?**

- A. Line
- B. Ray
- C. Segment
- D. Plane

**4.4. If a triangle has angles 50 degrees and 60 degrees, the third angle is:**

- A. 70 degrees
- B. 80 degrees
- C. 90 degrees
- D. 110 degrees

**5.1. Which object has two endpoints?**

- A. Line
- B. Ray
- C. Segment
- D. Plane

**5.4. If a triangle has angles 50 degrees and 60 degrees, the third angle is:**

- A. 70 degrees
- B. 80 degrees
- C. 90 degrees
- D. 110 degrees

**6.1. Which object has two endpoints?**

- A. Line
- B. Ray
- C. Segment
- D. Plane

**6.4. If a triangle has angles 50 degrees and 60 degrees, the third angle is:**

- A. 70 degrees
- B. 80 degrees
- C. 90 degrees
- D. 110 degrees

**4.2. Angles that add to 90 degrees are:**

- A. supplementary
- B. vertical
- C. complementary
- D. congruent

**4.5. Perimeter measures:**

- A. space inside a figure
- B. distance around a figure
- C. slant height only
- D. number of sides

**5.2. Angles that add to 90 degrees are:**

- A. supplementary
- B. vertical
- C. complementary
- D. congruent

**5.5. Perimeter measures:**

- A. space inside a figure
- B. distance around a figure
- C. slant height only
- D. number of sides

**6.2. Angles that add to 90 degrees are:**

- A. supplementary
- B. vertical
- C. complementary
- D. congruent

**6.5. Perimeter measures:**

- A. space inside a figure
- B. distance around a figure
- C. slant height only
- D. number of sides

**7. What do adjacent angles always share?**

- A. Only the same measure
- B. A common vertex and a common side
- C. Only the same endpoint label
- D. A full rotation

**7.1. Which object has two endpoints?**

- A. Line
- B. Ray
- C. Segment
- D. Plane

**7.2. Angles that add to 90 degrees are:**

- A. supplementary
- B. vertical
- C. complementary
- D. congruent

**7.3. Angles that add to 180 degrees are:**

- A. supplementary
- B. complementary
- C. adjacent only
- D. acute

**7.4. If a triangle has angles 50 degrees and 60 degrees, the third angle is:**

- A. 70 degrees
- B. 80 degrees
- C. 90 degrees
- D. 110 degrees

**7.5. Perimeter measures:**

- A. space inside a figure
- B. distance around a figure
- C. slant height only
- D. number of sides

**8. Which measure could be an obtuse angle?**

- A. 100 degrees
- B. 60 degrees
- C. 90 degrees
- D. 180 degrees

**8.1. Which object has two endpoints?**

- A. Line
- B. Ray
- C. Segment
- D. Plane

**8.2. Angles that add to 90 degrees are:**

- A. supplementary
- B. vertical
- C. complementary
- D. congruent

**8.3. Angles that add to 180 degrees are:**

- A. supplementary
- B. complementary
- C. adjacent only
- D. acute

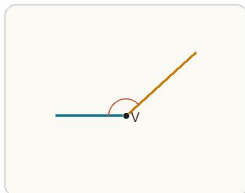
**8.4. If a triangle has angles 50 degrees and 60 degrees, the third angle is:**

- A. 70 degrees
- B. 80 degrees
- C. 90 degrees
- D. 110 degrees

**8.5. Perimeter measures:**

- A. space inside a figure
- B. distance around a figure
- C. slant height only
- D. number of sides

**9. What is the measure of a right angle?**



A right angle marks a quarter-turn, so its measure is 90 degrees.

- A. 45 degrees
- B. 90 degrees
- C. 180 degrees
- D. 360 degrees

**9.1. Which object has two endpoints?**

- A. Line
- B. Ray
- C. Segment
- D. Plane

**9.2. Angles that add to 90 degrees are:**

- A. supplementary
- B. vertical
- C. complementary
- D. congruent

**9.3. Angles that add to 180 degrees are:**

- A. supplementary
- B. complementary
- C. adjacent only
- D. acute

**9.4. If a triangle has angles 50 degrees and 60 degrees, the third angle is:**

- A. 70 degrees
- B. 80 degrees
- C. 90 degrees
- D. 110 degrees

**9.5. Perimeter measures:**

- A. space inside a figure
- B. distance around a figure
- C. slant height only
- D. number of sides

**10. Angle measure describes which idea?**

- A. How long a segment is
- B. How many sides a polygon has
- C. How much one ray turns from another
- D. How far a point is from the origin

**10.1. Which object has two endpoints?**

- A. Line
- B. Ray
- C. Segment
- D. Plane

**10.2. Angles that add to 90 degrees are:**

- A. supplementary
- B. vertical
- C. complementary
- D. congruent

**10.3. Angles that add to 180 degrees are:**

- A. supplementary
- B. complementary
- C. adjacent only
- D. acute

**10.4. If a triangle has angles 50 degrees and 60 degrees, the third angle is:**

- A. 70 degrees
- B. 80 degrees
- C. 90 degrees
- D. 110 degrees

**10.5. Perimeter measures:**

- A. space inside a figure
- B. distance around a figure
- C. slant height only
- D. number of sides

**11. What does an angle bisector do?**

- A. It makes an angle larger
- B. It adds two angles together
- C. It rotates an angle 90 degrees
- D. It divides an angle into two equal angles

**11.1. Which object has two endpoints?**

- A. Line
- B. Ray
- C. Segment
- D. Plane

**11.2. Angles that add to 90 degrees are:**

- A. supplementary
- B. vertical
- C. complementary
- D. congruent

**11.3. Angles that add to 180 degrees are:**

- A. supplementary
- B. complementary
- C. adjacent only
- D. acute

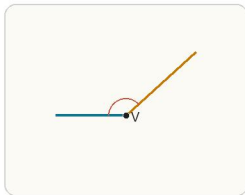
**11.4. If a triangle has angles 50 degrees and 60 degrees, the third angle is:**

- A. 70 degrees
- B. 80 degrees
- C. 90 degrees
- D. 110 degrees

**11.5. Perimeter measures:**

- A. space inside a figure
- B. distance around a figure
- C. slant height only
- D. number of sides

**12. What geometric object is highlighted in the diagram?**



The highlighted figure is an angle because two rays meet at one endpoint and create a turn.

- A. A line
- B. An angle
- C. A segment
- D. A polygon

**12.1. Which object has two endpoints?**

- A. Line
- B. Ray
- C. Segment
- D. Plane

**12.2. Angles that add to 90 degrees are:**

- A. supplementary
- B. vertical
- C. complementary
- D. congruent

**12.3. Angles that add to 180 degrees are:**

- A. supplementary
- B. complementary
- C. adjacent only
- D. acute

**12.4. If a triangle has angles 50 degrees and 60 degrees, the third angle is:**

- A. 70 degrees
- B. 80 degrees
- C. 90 degrees
- D. 110 degrees

**12.5. Perimeter measures:**

- A. space inside a figure
- B. distance around a figure
- C. slant height only
- D. number of sides

**13. If angles A and B are complementary and angle A = 37 degrees, what is the best next step to find angle B?**

- A. Add 37 to 90
- B. Subtract 37 from 90
- C. Subtract 37 from 180
- D. Multiply 37 by 2

**13.3. Angles that add to 180 degrees are:**

- A. supplementary
- B. complementary
- C. adjacent only
- D. acute

**14. To solve  $x + 37 = 90$  for a pair of complementary angles, what is the best next step?**

- A. Add 37 to 90
- B. Subtract 37 from 90
- C. Multiply 90 by 37
- D. Divide 90 by 37

**14.3. Angles that add to 180 degrees are:**

- A. supplementary
- B. complementary
- C. adjacent only
- D. acute

**15. A student says complementary angles add to 180 degrees. What is the mistake?**

- A. Complementary angles are always equal
- B. Complementary angles add to 90 degrees, not 180 degrees
- C. Complementary angles add to 360 degrees
- D. Complementary angles cannot include a right angle

**15.3. Angles that add to 180 degrees are:**

- A. supplementary
- B. complementary
- C. adjacent only
- D. acute

**13.1. Which object has two endpoints?**

- A. Line
- B. Ray
- C. Segment
- D. Plane

**13.4. If a triangle has angles 50 degrees and 60 degrees, the third angle is:**

- A. 70 degrees
- B. 80 degrees
- C. 90 degrees
- D. 110 degrees

**14.1. Which object has two endpoints?**

- A. Line
- B. Ray
- C. Segment
- D. Plane

**14.4. If a triangle has angles 50 degrees and 60 degrees, the third angle is:**

- A. 70 degrees
- B. 80 degrees
- C. 90 degrees
- D. 110 degrees

**15.1. Which object has two endpoints?**

- A. Line
- B. Ray
- C. Segment
- D. Plane

**15.4. If a triangle has angles 50 degrees and 60 degrees, the third angle is:**

- A. 70 degrees
- B. 80 degrees
- C. 90 degrees
- D. 110 degrees

**13.2. Angles that add to 90 degrees are:**

- A. supplementary
- B. vertical
- C. complementary
- D. congruent

**13.5. Perimeter measures:**

- A. space inside a figure
- B. distance around a figure
- C. slant height only
- D. number of sides

**14.2. Angles that add to 90 degrees are:**

- A. supplementary
- B. vertical
- C. complementary
- D. congruent

**14.5. Perimeter measures:**

- A. space inside a figure
- B. distance around a figure
- C. slant height only
- D. number of sides

**15.2. Angles that add to 90 degrees are:**

- A. supplementary
- B. vertical
- C. complementary
- D. congruent

**15.5. Perimeter measures:**

- A. space inside a figure
- B. distance around a figure
- C. slant height only
- D. number of sides

**16. A student says complementary angles always add to 180 degrees. What is wrong?**

- A. Complementary angles are always equal
- B. Complementary angles only exist in triangles
- C. Complementary angles add to 90 degrees, not 180 degrees
- D. Complementary angles add to 360 degrees

16.3. Angles that add to 180 degrees are:

- A. supplementary
- B. complementary
- C. adjacent only
- D. acute

**17. A student says vertical angles always add to 180 degrees. What is wrong?**

- A. Vertical angles are equal; it is supplementary angles that add to 180 degrees
- B. Vertical angles always add to 90 degrees
- C. Vertical angles are never equal
- D. Vertical angles only happen in triangles

17.3. Angles that add to 180 degrees are:

- A. supplementary
- B. complementary
- C. adjacent only
- D. acute

**18. Two adjacent angles measure 18 degrees and 27 degrees. Find the whole angle. Answer with a number.**

18.3. Angles that add to 180 degrees are:

- A. supplementary
- B. complementary
- C. adjacent only
- D. acute

16.1. Which object has two endpoints?

- A. Line
- B. Ray
- C. Segment
- D. Plane

16.4. If a triangle has angles 50 degrees and 60 degrees, the third angle is:

- A. 70 degrees
- B. 80 degrees
- C. 90 degrees
- D. 110 degrees

17.1. Which object has two endpoints?

- A. Line
- B. Ray
- C. Segment
- D. Plane

17.4. If a triangle has angles 50 degrees and 60 degrees, the third angle is:

- A. 70 degrees
- B. 80 degrees
- C. 90 degrees
- D. 110 degrees

18.1. Which object has two endpoints?

- A. Line
- B. Ray
- C. Segment
- D. Plane

18.4. If a triangle has angles 50 degrees and 60 degrees, the third angle is:

- A. 70 degrees
- B. 80 degrees
- C. 90 degrees
- D. 110 degrees

16.2. Angles that add to 90 degrees are:

- A. supplementary
- B. vertical
- C. complementary
- D. congruent

16.5. Perimeter measures:

- A. space inside a figure
- B. distance around a figure
- C. slant height only
- D. number of sides

17.2. Angles that add to 90 degrees are:

- A. supplementary
- B. vertical
- C. complementary
- D. congruent

17.5. Perimeter measures:

- A. space inside a figure
- B. distance around a figure
- C. slant height only
- D. number of sides

18.2. Angles that add to 90 degrees are:

- A. supplementary
- B. vertical
- C. complementary
- D. congruent

18.5. Perimeter measures:

- A. space inside a figure
- B. distance around a figure
- C. slant height only
- D. number of sides

**19. If two angles are complementary and one angle is 28 degrees, what is the other angle? Answer with a number.**

19.1. Which object has two endpoints?

- A. Line
- B. Ray
- C. Segment
- D. Plane

19.2. Angles that add to 90 degrees are:

- A. supplementary
- B. vertical
- C. complementary
- D. congruent

19.3. Angles that add to 180 degrees are:

- A. supplementary
- B. complementary
- C. adjacent only
- D. acute

19.4. If a triangle has angles 50 degrees and 60 degrees, the third angle is:

- A. 70 degrees
- B. 80 degrees
- C. 90 degrees
- D. 110 degrees

19.5. Perimeter measures:

- A. space inside a figure
- B. distance around a figure
- C. slant height only
- D. number of sides

**20. If two angles are supplementary and one angle is 115 degrees, what is the other angle? Answer with a number.**

20.1. Which object has two endpoints?

- A. Line
- B. Ray
- C. Segment
- D. Plane

20.2. Angles that add to 90 degrees are:

- A. supplementary
- B. vertical
- C. complementary
- D. congruent

20.3. Angles that add to 180 degrees are:

- A. supplementary
- B. complementary
- C. adjacent only
- D. acute

20.4. If a triangle has angles 50 degrees and 60 degrees, the third angle is:

- A. 70 degrees
- B. 80 degrees
- C. 90 degrees
- D. 110 degrees

20.5. Perimeter measures:

- A. space inside a figure
- B. distance around a figure
- C. slant height only
- D. number of sides

**21. If one angle measures 28 degrees and the two angles are complementary, find the other angle. Answer with a number.**

21.1. Which object has two endpoints?

- A. Line
- B. Ray
- C. Segment
- D. Plane

21.2. Angles that add to 90 degrees are:

- A. supplementary
- B. vertical
- C. complementary
- D. congruent

21.3. Angles that add to 180 degrees are:

- A. supplementary
- B. complementary
- C. adjacent only
- D. acute

21.4. If a triangle has angles 50 degrees and 60 degrees, the third angle is:

- A. 70 degrees
- B. 80 degrees
- C. 90 degrees
- D. 110 degrees

21.5. Perimeter measures:

- A. space inside a figure
- B. distance around a figure
- C. slant height only
- D. number of sides

**22. If one angle measures 41 degrees and the two angles are supplementary, find the other angle. Answer with a number.**

22.1. Which object has two endpoints?

- A. Line
- B. Ray
- C. Segment
- D. Plane

22.2. Angles that add to 90 degrees are:

- A. supplementary
- B. vertical
- C. complementary
- D. congruent

22.3. Angles that add to 180 degrees are:

- A. supplementary
- B. complementary
- C. adjacent only
- D. acute

22.4. If a triangle has angles 50 degrees and 60 degrees, the third angle is:

- A. 70 degrees
- B. 80 degrees
- C. 90 degrees
- D. 110 degrees

22.5. Perimeter measures:

- A. space inside a figure
- B. distance around a figure
- C. slant height only
- D. number of sides

**23. Two complementary angles measure  $x$  degrees and 37 degrees. Find  $x$ . Answer with a number.**

23.1. Which object has two endpoints?

- A. Line
- B. Ray
- C. Segment
- D. Plane

23.2. Angles that add to 90 degrees are:

- A. supplementary
- B. vertical
- C. complementary
- D. congruent

23.3. Angles that add to 180 degrees are:

- A. supplementary
- B. complementary
- C. adjacent only
- D. acute

23.4. If a triangle has angles 50 degrees and 60 degrees, the third angle is:

- A. 70 degrees
- B. 80 degrees
- C. 90 degrees
- D. 110 degrees

23.5. Perimeter measures:

- A. space inside a figure
- B. distance around a figure
- C. slant height only
- D. number of sides

**24. An angle bisector splits a 74-degree angle into two equal angles. How many degrees is each smaller angle? Answer with a number.**

24.1. Which object has two endpoints?

- A. Line
- B. Ray
- C. Segment
- D. Plane

24.2. Angles that add to 90 degrees are:

- A. supplementary
- B. vertical
- C. complementary
- D. congruent

24.3. Angles that add to 180 degrees are:

- A. supplementary
- B. complementary
- C. adjacent only
- D. acute

24.4. If a triangle has angles 50 degrees and 60 degrees, the third angle is:

- A. 70 degrees
- B. 80 degrees
- C. 90 degrees
- D. 110 degrees

24.5. Perimeter measures:

- A. space inside a figure
- B. distance around a figure
- C. slant height only
- D. number of sides

**25. Two adjacent angles on a straight line measure 65 degrees and  $x$  degrees. Find  $x$ . Answer with a number.**

25.3. Angles that add to 180 degrees are:

- A. supplementary
- B. complementary
- C. adjacent only
- D. acute

**26. Two equal complementary angles each measure  $x$  degrees. Find  $x$ . Answer with a number.**

26.3. Angles that add to 180 degrees are:

- A. supplementary
- B. complementary
- C. adjacent only
- D. acute

**27. Angle measure describes what idea?**

- A. How long each side of the angle is
- B. How much area the angle contains
- C. How many endpoints the angle has
- D. How much one ray turns away from another ray

27.3. Angles that add to 180 degrees are:

- A. supplementary
- B. complementary
- C. adjacent only
- D. acute

25.1. Which object has two endpoints?

- A. Line
- B. Ray
- C. Segment
- D. Plane

25.4. If a triangle has angles 50 degrees and 60 degrees, the third angle is:

- A. 70 degrees
- B. 80 degrees
- C. 90 degrees
- D. 110 degrees

26.1. Which object has two endpoints?

- A. Line
- B. Ray
- C. Segment
- D. Plane

26.4. If a triangle has angles 50 degrees and 60 degrees, the third angle is:

- A. 70 degrees
- B. 80 degrees
- C. 90 degrees
- D. 110 degrees

27.1. Which object has two endpoints?

- A. Line
- B. Ray
- C. Segment
- D. Plane

27.4. If a triangle has angles 50 degrees and 60 degrees, the third angle is:

- A. 70 degrees
- B. 80 degrees
- C. 90 degrees
- D. 110 degrees

25.2. Angles that add to 90 degrees are:

- A. supplementary
- B. vertical
- C. complementary
- D. congruent

25.5. Perimeter measures:

- A. space inside a figure
- B. distance around a figure
- C. slant height only
- D. number of sides

26.2. Angles that add to 90 degrees are:

- A. supplementary
- B. vertical
- C. complementary
- D. congruent

26.5. Perimeter measures:

- A. space inside a figure
- B. distance around a figure
- C. slant height only
- D. number of sides

27.2. Angles that add to 90 degrees are:

- A. supplementary
- B. vertical
- C. complementary
- D. congruent

27.5. Perimeter measures:

- A. space inside a figure
- B. distance around a figure
- C. slant height only
- D. number of sides

**28. Vertical angles measure  $3x - 5$  degrees and 40 degrees. What is the best next step?**

- A. Set  $3x - 5$  equal to 40
- B. Add  $3x - 5$  and 40
- C. Subtract 40 from 180
- D. Multiply 40 by 2

28.3. Angles that add to 180 degrees are:

- A. supplementary
- B. complementary
- C. adjacent only
- D. acute

**29. Two complementary angles measure  $x$  degrees and 54 degrees. Find  $x$ . Answer with a number.**

29.3. Angles that add to 180 degrees are:

- A. supplementary
- B. complementary
- C. adjacent only
- D. acute

**30. Two angles on a straight line measure 65 degrees and  $x$  degrees. Find  $x$ . Answer with a number.**

30.3. Angles that add to 180 degrees are:

- A. supplementary
- B. complementary
- C. adjacent only
- D. acute

28.1. Which object has two endpoints?

- A. Line
- B. Ray
- C. Segment
- D. Plane

28.4. If a triangle has angles 50 degrees and 60 degrees, the third angle is:

- A. 70 degrees
- B. 80 degrees
- C. 90 degrees
- D. 110 degrees

29.1. Which object has two endpoints?

- A. Line
- B. Ray
- C. Segment
- D. Plane

29.4. If a triangle has angles 50 degrees and 60 degrees, the third angle is:

- A. 70 degrees
- B. 80 degrees
- C. 90 degrees
- D. 110 degrees

30.1. Which object has two endpoints?

- A. Line
- B. Ray
- C. Segment
- D. Plane

30.4. If a triangle has angles 50 degrees and 60 degrees, the third angle is:

- A. 70 degrees
- B. 80 degrees
- C. 90 degrees
- D. 110 degrees

28.2. Angles that add to 90 degrees are:

- A. supplementary
- B. vertical
- C. complementary
- D. congruent

28.5. Perimeter measures:

- A. space inside a figure
- B. distance around a figure
- C. slant height only
- D. number of sides

29.2. Angles that add to 90 degrees are:

- A. supplementary
- B. vertical
- C. complementary
- D. congruent

29.5. Perimeter measures:

- A. space inside a figure
- B. distance around a figure
- C. slant height only
- D. number of sides

30.2. Angles that add to 90 degrees are:

- A. supplementary
- B. vertical
- C. complementary
- D. congruent

30.5. Perimeter measures:

- A. space inside a figure
- B. distance around a figure
- C. slant height only
- D. number of sides

**31. Three angles around a point measure 120 degrees, 90 degrees, and  $x$  degrees. Find  $x$ . Answer with a number.**

31.1. Which object has two endpoints?

- A. Line
- B. Ray
- C. Segment
- D. Plane

31.2. Angles that add to 90 degrees are:

- A. supplementary
- B. vertical
- C. complementary
- D. congruent

31.3. Angles that add to 180 degrees are:

- A. supplementary
- B. complementary
- C. adjacent only
- D. acute

31.4. If a triangle has angles 50 degrees and 60 degrees, the third angle is:

- A. 70 degrees
- B. 80 degrees
- C. 90 degrees
- D. 110 degrees

31.5. Perimeter measures:

- A. space inside a figure
- B. distance around a figure
- C. slant height only
- D. number of sides

**32. Vertical angles measure  $3x - 5$  degrees and 40 degrees. Find  $x$ . Answer with a number.**

32.1. Which object has two endpoints?

- A. Line
- B. Ray
- C. Segment
- D. Plane

32.2. Angles that add to 90 degrees are:

- A. supplementary
- B. vertical
- C. complementary
- D. congruent

32.3. Angles that add to 180 degrees are:

- A. supplementary
- B. complementary
- C. adjacent only
- D. acute

32.4. If a triangle has angles 50 degrees and 60 degrees, the third angle is:

- A. 70 degrees
- B. 80 degrees
- C. 90 degrees
- D. 110 degrees

32.5. Perimeter measures:

- A. space inside a figure
- B. distance around a figure
- C. slant height only
- D. number of sides