

# 6.1 Puzzle Time

## Why Did The Elephant Jump Up And Down? Because He . . .

A	B	C	D	E	F
G	H				

Complete each exercise. Find the answer in the answer column. Write the word under the answer in the box containing the exercise letter.

construction <b>MOUSE</b>
6 <b>SHAKE</b>
angle <b>MEDICINE</b>
correct <b>AND</b>
$y = \frac{1}{7}x + \frac{64}{7}$ <b>TO</b>
endpoints <b>AND</b>
4 <b>RAN</b>
$y = -7x + 52$ <b>TAIL</b>

Complete the sentence.

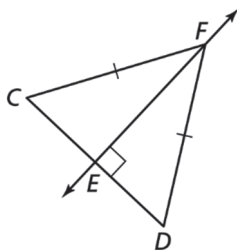
- A. The perpendicular \_\_\_\_\_ of a line segment is the line that is perpendicular to the segment at its midpoint.
- B. A point is \_\_\_\_\_ from two figures when the point is the same distance from each figure.
- C. If a point is on the bisector of an angle, then it is equidistant from the two sides of the \_\_\_\_\_.
- D. In a plane, if a point is on the perpendicular bisector of a segment, then it is equidistant from the \_\_\_\_\_ of the segment.

Write an equation of the perpendicular bisector of the segment with the given endpoints.

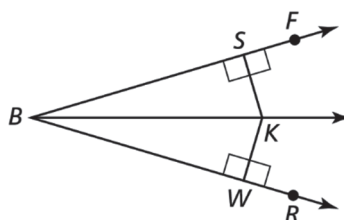
- E.  $A(-2, 8), B(4, -6)$
- F.  $X(5, 17), Y(7, 3)$

Find the value of the indicated variable.

- G.  $CE = 3x + 5, DE = 2x + 11$ ; Find  $x$ .



- H.  $m\angle SBK = (4y - 3)^\circ$ ,  
 $m\angle KBW = (2y + 15)^\circ$ ,  
 $\overline{SK} \cong \overline{WK}$ . Find  $y$ .



vertex <b>THE</b>
$y = -\frac{7}{3}x + \frac{10}{3}$ <b>FOOT</b>
bisector <b>TOOK</b>
-3 <b>OF</b>
equidistant <b>HIS</b>
9 <b>IT</b>
line <b>RED</b>
$y = \frac{3}{7}x + \frac{4}{7}$ <b>FORGOT</b>