

Why didn't the skeleton go to the ball?

Find the missing angle measures or lengths. To figure out the joke, place the letter of each problem above the answer on the line(s) below.

O: $DC =$ _____

D: $BC =$ _____

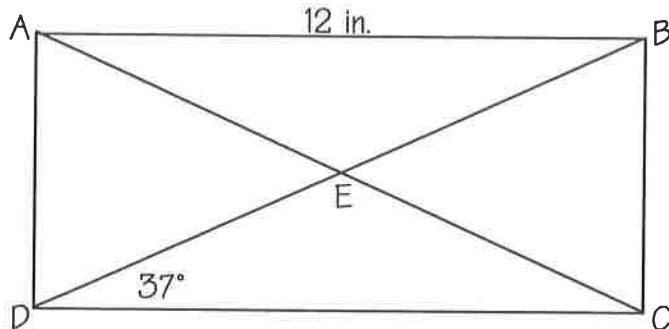
T: $DE =$ _____

B: $m\angle DBA =$ _____

A: $m\angle DAC =$ _____

H: $m\angle DEC =$ _____

O: $m\angle CEB =$ _____



ABCD is a rectangle, $AC = 15$

O: $m\angle JGH =$ _____

I: $m\angle FJH =$ _____

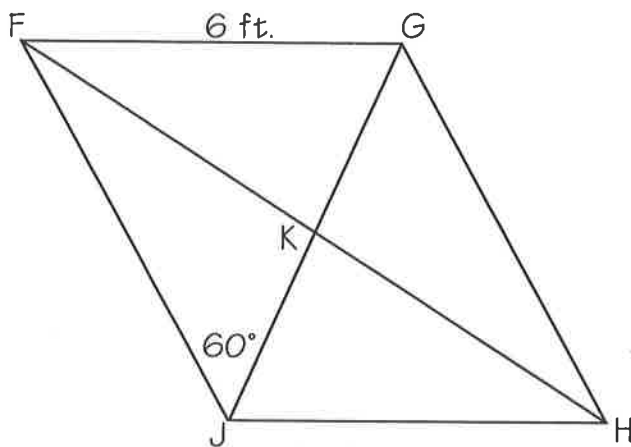
E: $m\angle KFG =$ _____

H: $GH =$ _____

O: $KG =$ _____

Y: $FK =$ _____

G: $FH =$ _____



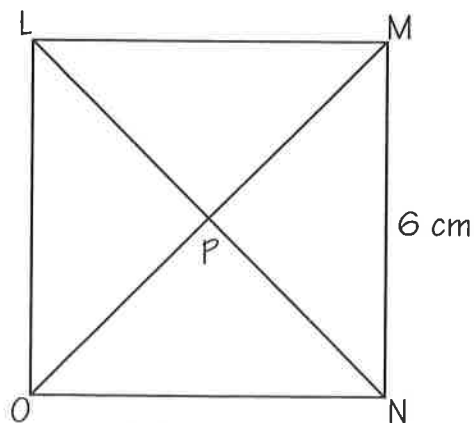
FGJH is a rhombus

H: $m\angle OMN =$ _____

W: $PM =$ _____

T: $LN =$ _____

N: $m\angle OPL =$ _____



LMNO is a square

45 30 6 53 9 90 12 37 74 9 $3\sqrt{3}$ $6\sqrt{2}$ 3 $6\sqrt{3}$ 60 $3\sqrt{2}$ 120 7.5 106

Why didn't the skeleton go to the ball?

Find the missing angle measures or lengths. To figure out the joke, place the letter of each problem above the answer on the line(s) below.

- O: DC = 12
 D: BC = 9 ★
 T: DE = 7.5
 B: $m\angle DBA =$ 37°
 A: $m\angle DAC =$ 53°
 H: $m\angle DEC =$ 106°
 O: $m\angle CEB =$ 74°

$$12^2 + b^2 = 15^2$$

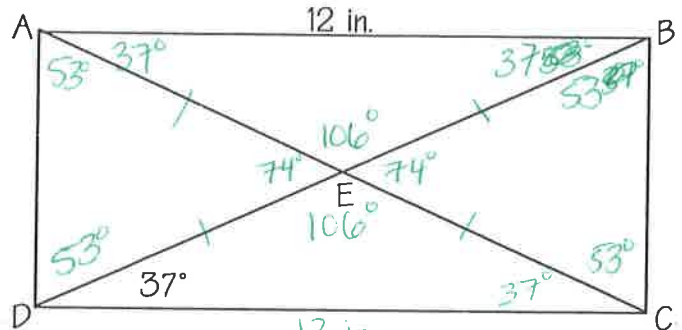
$$144 + b^2 = 225$$

$$b^2 = \frac{225 - 144}{1}$$

$$b^2 = 81$$

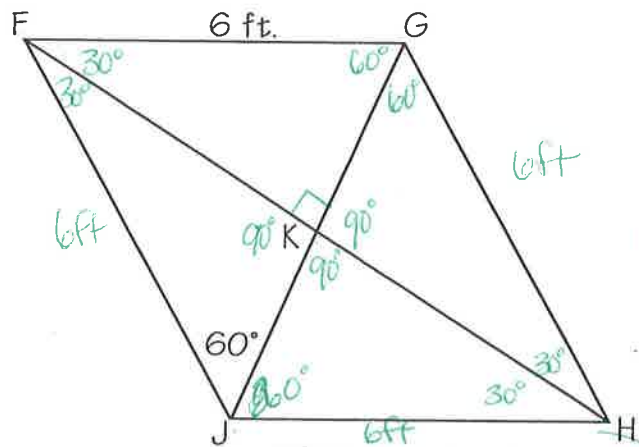
$$b = 9$$

$$\frac{37}{137} = \frac{180}{106}$$



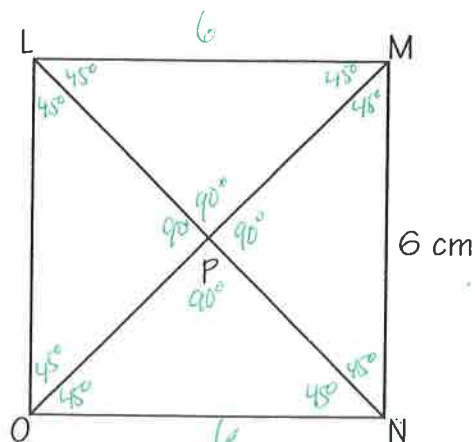
ABCD is a rectangle, AC = 15

- O: $m\angle JGH =$ 60°
 I: $m\angle FJH =$ 120°
 E: $m\angle KFG =$ 30°
 H: GH = 6
 O: KG = 3 ★
 Y: FK = $3\sqrt{3}$ ★
 G: FH = $6\sqrt{3}$ ★



FGJH is a rhombus

- H: $m\angle OMN =$ 45°
 W: PM = $3\sqrt{2}$ ★
 T: LN = $6\sqrt{2}$ ★
 N: $m\angle OPL =$ 90°



LMNO is a square

H E / H A D / N O / B O D Y / T O / G O / W I T A
 :5 30 6 53 9 90 12 37 74 9 $3\sqrt{3}$ $6\sqrt{2}$ 3 $6\sqrt{3}$ 60 $3\sqrt{2}$ 120 7.5 106

Polygons — Rectangle, Rhombus, and Square

Joke #29