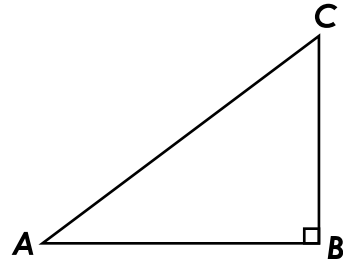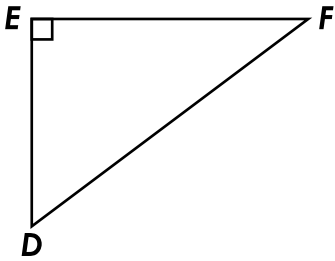# Hypotenuse

The longest side of a right triangle is the **hypotenuse**. It is always the side opposite the right angle.
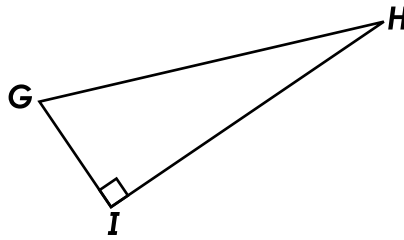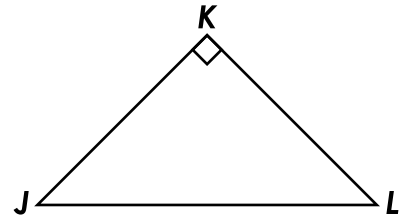
$\overline{AC}$ is the hypotenuse in the example.

Identify the hypotenuse of each right triangle.
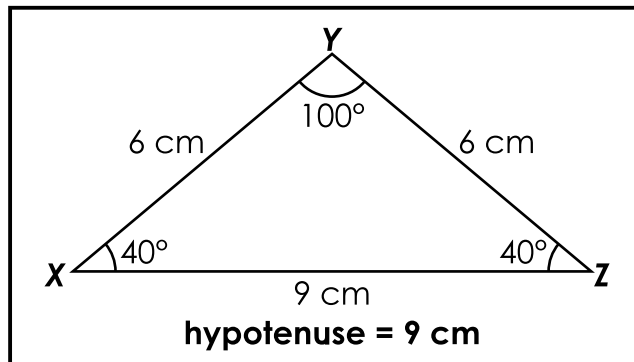
hypotenuse - _____

hypotenuse - _____

hypotenuse - _____

Devan measures the sides of a right triangle. Side $\overline{MN}$ measures 12 cm. Side $\overline{NO}$ measures 13 cm. Side $\overline{OM}$ measures 5 cm.
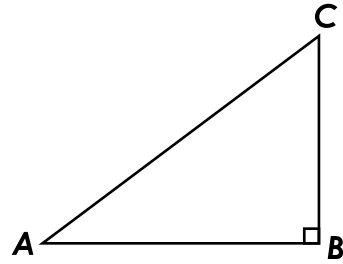Which side is the hypotenuse?

_____

Y
100°
6 cm   6 cm
X 40°   40° Z
9 cm
hypotenuse = 9 cm

What is wrong with the illustration above?
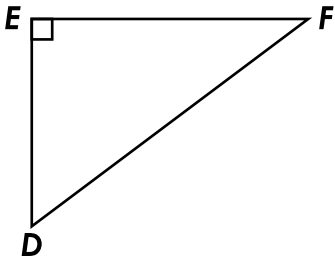
_____

_____

_____

ANSWER KEY

Hypotenuse

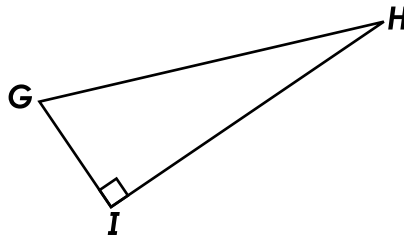The longest side of a right triangle is the **hypotenuse**. It is always the side opposite the right angle.

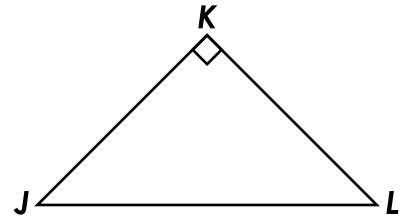$\overline{AC}$ is the hypotenuse in the example.

Identify the hypotenuse of each right triangle.
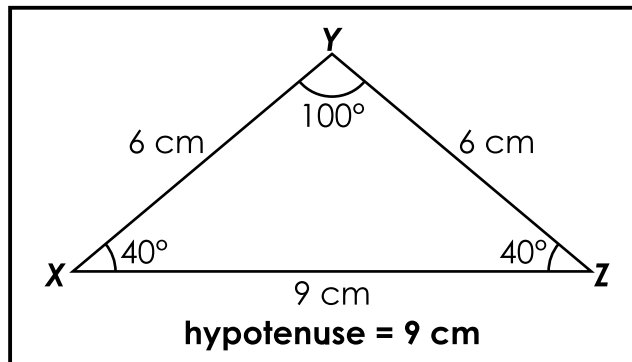
hypotenuse - **DF**

hypotenuse - **GH**

hypotenuse - **JL**

Devan measures the sides of a right triangle. Side $\overline{MN}$ measures 12 cm. Side $\overline{NO}$ measures 13 cm. Side $\overline{OM}$ measures 5 cm.
Which side is the hypotenuse?

NO

6 cm
100°
6 cm
40°
40°
9 cm
hypotenuse = 9 cm

What is wrong with the illustration above?

The triangle ∆XYZ is not a right triangle. Only a right triangle can have

a hypotenuse.

CW