

Name _____

Date _____

Special Right Triangles (Geometry emphasis) - Guided Lesson Explanation

Explanation#1

H (hypotenuse)

$$H = b \times 2$$

$$H = 8 \times 2$$

$$H = 16$$

So, the answer is $EG = 16$.

Explanation#2

$$\angle E = \angle F - \angle G$$

$$\angle E = 90^\circ - 60^\circ$$

$$\angle E = 30^\circ$$

So, the answer is $\angle E = 30^\circ$.

Explanation#3

H (hypotenuse)

p (perpendicular)

$$p = (1/2)H\sqrt{3}$$

$$p = (1/2) \times 16 \times \sqrt{3}$$

$$p = 8\sqrt{3}$$

Simplify this $p = 13.9$

So, the answer is $EF = 13.9$.

