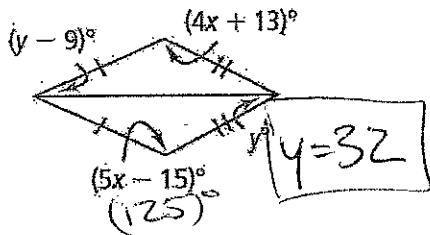


$$4x + 13 = 5x - 15$$

$$\boxed{28 = x}$$

9)



$$125 + y + y = 180$$

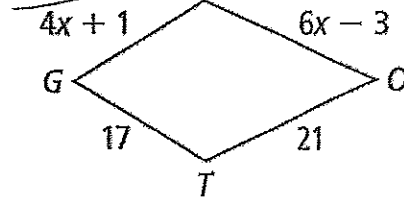
$$2y = 55$$

$$6x - 3 = 21$$

$$\boxed{6x = 24}$$

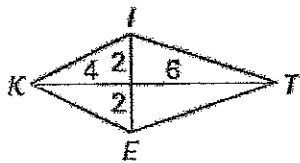
$$\boxed{x = 4}$$

10)



Use Pythagorean theorem to find the lengths of the sides of the kite. Round to the tenths place.

11)



$$4 + 16 = KI^2$$

$$KI = \sqrt{20}$$

$$\quad \quad \quad \uparrow$$

$$\quad \quad \quad 4\sqrt{5}$$

$$36 + 4 = IT^2$$

$$21\sqrt{5}$$

$$\sqrt{40} = IT$$

$$\quad \quad \quad \uparrow$$

$$\quad \quad \quad 10\sqrt{4} \quad 2\sqrt{10}$$

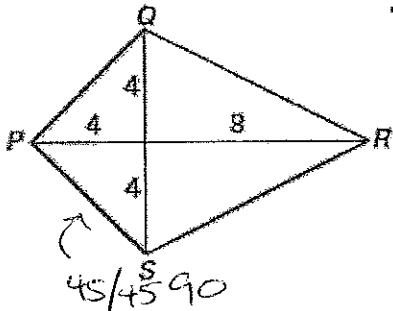
$$KI = \underline{2\sqrt{5}}$$

$$IT = \underline{2\sqrt{10}}$$

$$TE = \underline{2\sqrt{10}}$$

$$KE = \underline{2\sqrt{5}}$$

12)



$$4^2 + 8^2 = QR^2$$

$$\sqrt{80} = QR$$

$$\quad \quad \quad \uparrow$$

$$\quad \quad \quad 10\sqrt{8} \quad 4\sqrt{5}$$

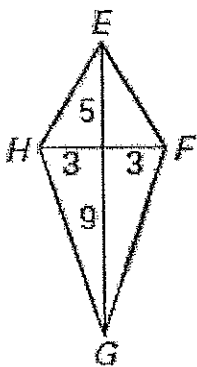
$$PQ = \underline{4\sqrt{2}}$$

$$QR = \underline{4\sqrt{5}}$$

$$RS = \underline{4\sqrt{5}}$$

$$PS = \underline{4\sqrt{2}}$$

13)



$$3^2 + 5^2 = EH^2$$

$$\sqrt{34} = EH$$

$$\sqrt{9 + 81} = FG$$

$$EH = \underline{\sqrt{34}}$$

$$EF = \underline{\sqrt{34}}$$

$$FG = \underline{3\sqrt{10}}$$

$$GH = \underline{3\sqrt{10}}$$