

$$1. C^2 = 5^2 + 12^2$$

$$C^2 = 25 + 144$$

$$C = \sqrt{169} = 13$$

$$2. b^2 = 17^2 - 15^2$$

$$b^2 = 289 - 225$$

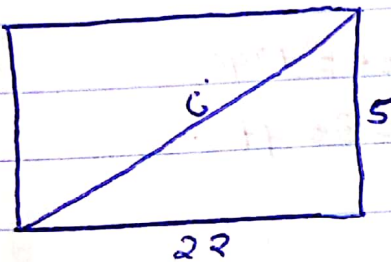
$$b = \sqrt{64} = 8$$

$$3. C^2 = 12^2 + 10^2$$

$$C^2 = 144 + 100$$

$$C = \sqrt{244} = 15.62$$

4.



looking for hypotenuse

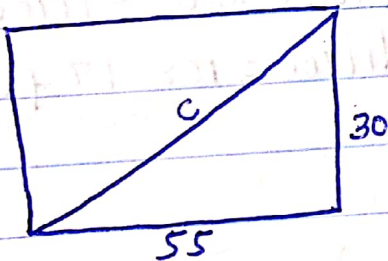
$$a^2 + b^2 = C^2$$

$$22^2 + 5^2 = C^2$$

$$484 + 25 = C^2$$

$$C = \sqrt{509} = 22.56 \text{ cm}$$

5.



Looking for hypotenuse

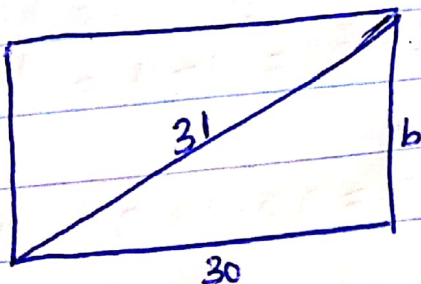
$$a^2 + b^2 = C^2$$

$$55^2 + 30^2 = C^2$$

$$3025 + 900 = C^2$$

$$C = \sqrt{3925} = 62.65 \text{ cm}$$

6



Looking for a leg.

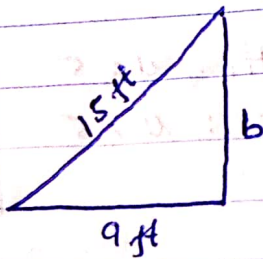
$$a^2 + b^2 = C^2$$

$$30^2 + b^2 = 31^2$$

$$b^2 = 31^2 - 30^2 = 961 - 900$$

$$b = \sqrt{61} = 7.81 \text{ ft}$$

7.



Looking for a leg.

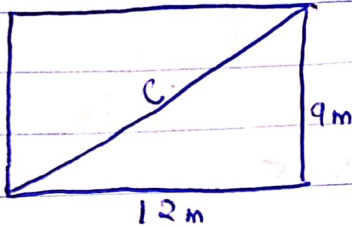
$$a^2 + b^2 = c^2$$

$$a^2 + b^2 = 15^2$$

$$b^2 = 225 - 81 = 144$$

$$b = \sqrt{144} = 12 \text{ ft}$$

8.



Looking for hypotenuse

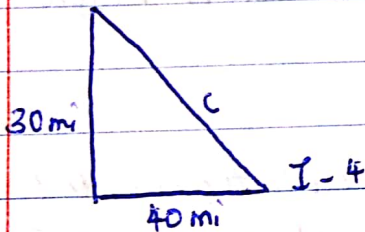
$$a^2 + b^2 = c^2$$

$$12^2 + 9^2 = c^2$$

$$c^2 = 144 + 81 = 225$$

$$c = \sqrt{225} = 15 \text{ m}$$

9.



Looking for hypotenuse

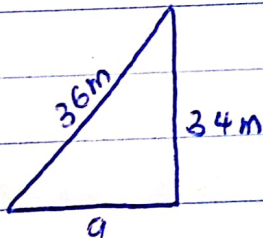
$$a^2 + b^2 = c^2$$

$$40^2 + 30^2 = c^2$$

$$c^2 = 1600 + 900 = 2500$$

$$c = \sqrt{2500} = 50 \text{ miles}$$

10.



Looking for a leg

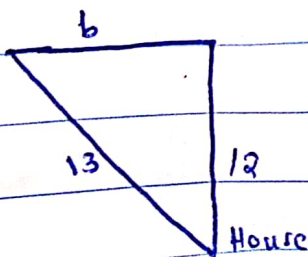
$$a^2 + b^2 = c^2$$

$$a^2 + 34^2 = 36^2$$

$$a^2 = 1296 - 1156$$

$$a = \sqrt{140} = 11.83 \text{ m}$$

11.



Looking for a leg

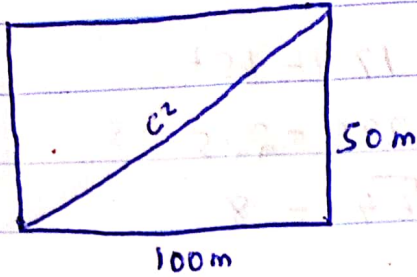
$$a^2 + b^2 = c^2$$

$$12^2 + b^2 = 13^2$$

$$b^2 = 169 - 144 = 25$$

$$b = \sqrt{25} = 5 \text{ blocks}$$

12



Looking for hypotenuse

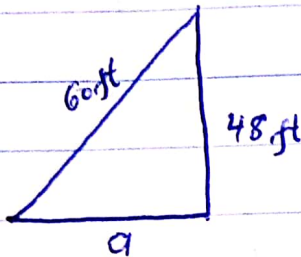
$$a^2 + b^2 = c^2$$

$$100^2 + 50^2 = c^2$$

$$c^2 = 10000 + 2500 = 12500$$

$$c = \sqrt{12500} = 111.8 \text{ m}$$

13



Looking for a leg

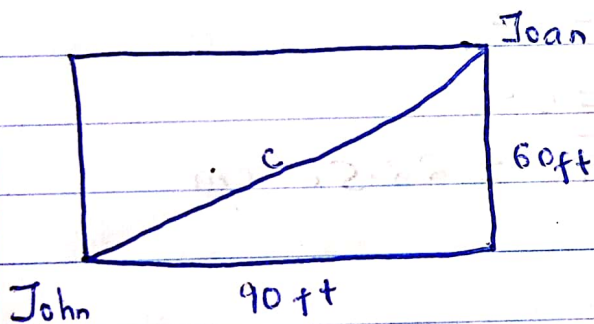
$$a^2 + b^2 = c^2$$

$$a^2 + 48^2 = 60^2$$

$$a^2 = 3600 - 2304 = 1296$$

$$a = \sqrt{1296} = 36 \text{ ft}$$

14



Looking for hypotenuse

$$a^2 + b^2 = c^2$$

$$90^2 + 60^2 = c^2$$

$$c^2 = 8100 + 3600 = 11700$$

$$c = \sqrt{11700} = 108.17 \text{ ft}$$