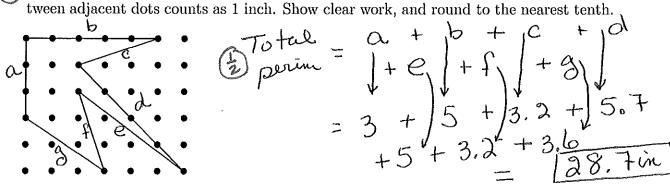


1. ((a)) Could the measurements 23 cm, 12 cm, and 10 cm be the lengths for the three sides of a triangle? Explain your reasoning in 1-2 sentences.
The barn doors won't even
The, because 12+10 × 93, (The barn doors won't even
muset, let alone form a s.)

(b) Could the measurements 13 cm, 24 cm, and 35 cm be the lengths for the three sides of a right triangle? Explain your reasoning in 1-2 sentences.

$$13^2 + 24^2 = 169 + 576 = 745$$
 have $35^2 = 1225$ The numbers have $a^2 + b^2 \neq C^2$, so $a^2 + b^2 \neq C^2$, so mo, mot a right Δ .

(2.) Find the entire perimeter of the figure shown. The horizontal or vertical distance between adjacent dots counts as 1 inch. Show clear work, and round to the nearest tenth.



$$a = 3$$

$$b = 5$$

$$a = 3$$

$$\frac{1}{2} \frac{c}{c}$$

$$\frac{1}{2} + 3^{2} = c^{2}$$

$$\frac{1}{10} = c^{2}$$

$$3.2 = \sqrt{10} = c$$

$$3.2 = \sqrt{10} = c$$

$$3.3 = \sqrt{10} = c$$

$$\frac{3}{4} + 4^{2} = d^{2}$$

$$32 = d^{2}$$

$$5.7 = \sqrt{32} = d$$

$$4$$

$$\frac{2^{2}}{2^{2}} = \frac{4}{3}$$

$$3^{2} + 4^{2} = e^{2}$$

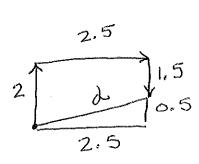
$$25 = e^{2}$$

$$5 = e$$

$$f$$
: $\sqrt{3}$
Same Δ as C
 $3, 2 = f$

3. On the salt flats, a hiker starts from a geological marker and walks 2 km north, then 2.5 km west, and finally 1.5 km south. If he walks directly back to the mark, how far will that distance be? Show clear work; round to the nearest tenth.





$$(3.5^{2} + 0.5^{2} = d^{2})$$

 $(6.25 + 0.25 = d^{2})$
 $(6.5 = d^{2})$

$$\int_{0.5}^{0.5} = \sqrt{6.5} = d$$

4. Show clear work in finding the circumference of a circle whose diameter is the length shown. Round to the nearest hundredth.

$$5^{2} + 3^{2} = d^{2}$$
$$34 = d^{2}$$

$$5.83 = \sqrt{34} = d$$