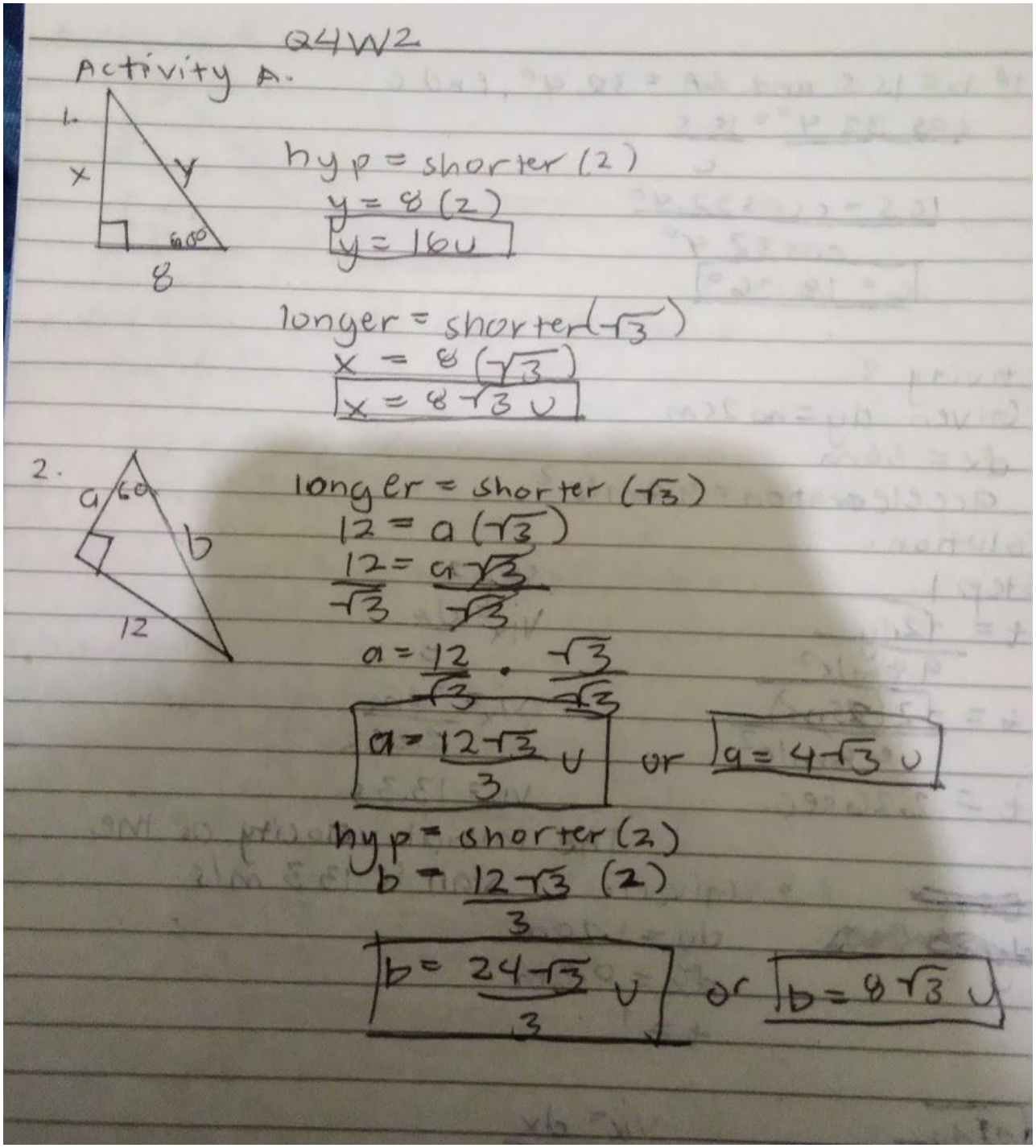
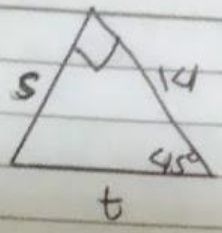
Angeles City Science High School

Mathematics 9

Name: Paul Gerald D. Pare **Section:** 9 - Adenine



3.



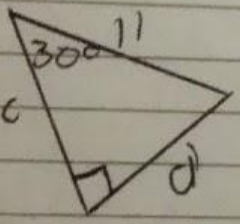
hyp = leg($\sqrt{2}$)

$t = 14(\sqrt{2})$

$\boxed{t = 14\sqrt{2}\ u}$

$\boxed{s = 14\ u}$ → since it is an isosceles triangle.

4.



hyp = shorter(2)

$11 = d(2)$

$\frac{11}{2} = \frac{2d}{2}$

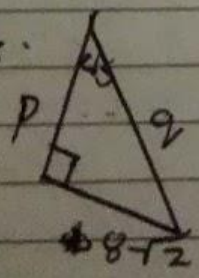
$\boxed{d = \frac{11}{2}\ u}$

longer = shorter($\sqrt{3}$)

$c = \frac{11}{2}(\sqrt{3})$

$\boxed{c = \frac{11\sqrt{3}}{2}\ u}$

5.



hyp = leg($\sqrt{2}$)

$q = 8\sqrt{2}(\sqrt{2})$

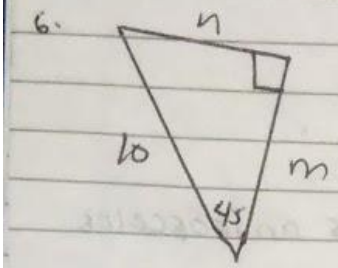
$q = 8\sqrt{4}$

$q = 8(2)$

$\boxed{q = 16\ u}$

$\boxed{p = 8\sqrt{2}\ u}$ → isosceles triangle

6.



$hyp = leg(\sqrt{2})$

$10 = m(\sqrt{2})$

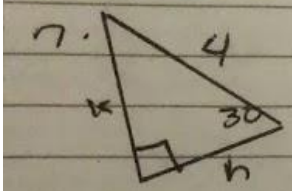
$\frac{10}{\sqrt{2}} = \frac{m\sqrt{2}}{\sqrt{2}}$

$m = \frac{10}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}}$

$\boxed{m = \frac{10\sqrt{2}}{2} u}$ or $\boxed{m = 5\sqrt{2}\, u}$

$\boxed{n = 5\sqrt{2}\, u}$

7.



$hyp = shorter(2)$

$4 = k(2)$

$\frac{4}{2} = \frac{2k}{2}$

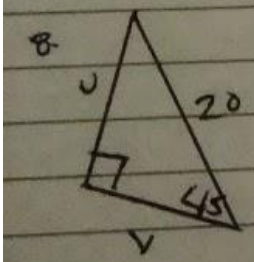
$\boxed{k = 2\, u}$

$longer = shorter(\sqrt{3})$

$h = 2(\sqrt{3})$

$\boxed{h = 2\sqrt{3}\, u}$

8



$hyp = leg(\sqrt{2})$

$20 = v(\sqrt{2})$

$\frac{20}{\sqrt{2}} = \frac{v\sqrt{2}}{\sqrt{2}}$

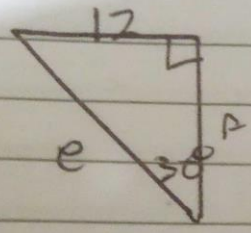
$v = \frac{20}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}}$

$v = \frac{20\sqrt{2}}{2}$

$\boxed{v = 10\sqrt{2}\, u}$

$\boxed{u = 10\sqrt{2}\, u}$

9.



hyp = shorter leg (2)

$e = 12(2)$

$\boxed{e = 24\sqrt{}}$

longer = shorter ($\sqrt{3}$)

$F = 12(\sqrt{3})$

$\boxed{F = 12\sqrt{3}\sqrt{}}$