Name:_____ ***Ch 7Review Pythagorean Theorem*** Date:_____

1. Determine the value of each of the following:

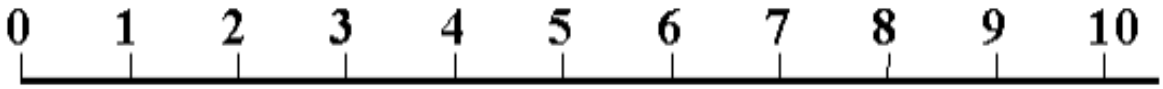
a) $\sqrt{121}$	b) $\sqrt{225}$	c) $\sqrt{625}$	d) $\sqrt{289}$
e) $\sqrt{324}$	f) $\sqrt{196}$	g) $\sqrt{1024}$	h) $\sqrt{169}$

2. Determine the prime factorization for each of the following numbers. Show all your steps:

a) N = 225	b) N = 432	c) N = 2010

3. Given each of the following square roots, indicate where they are located on a number line:

i) $\sqrt{70}$ ii) $\sqrt{55}$ iii) $\sqrt{19}$ iv) $\sqrt{107}$ v) $\sqrt{40}$

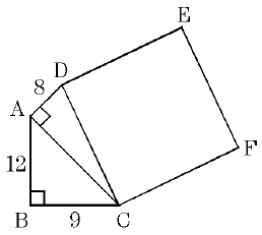


4. Given the area of each square, find the perimeter:

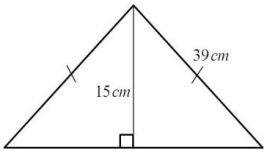
a) $A = 25m^2$	b) $A = 36cm^2$	c) $A = 144km^2$	d) $A = 200m^2$
e) $A = 50m^2$	f) $A = 125m^2$	g) $A = 250m^2$	h) $A = 2916km^2$

5. Arrange the following from lowest to greatest: $2\sqrt{12}$, $\sqrt{50}$, $6\sqrt{2}$, $3\sqrt{10}$, $5\sqrt{4}$, $6\sqrt{3}$

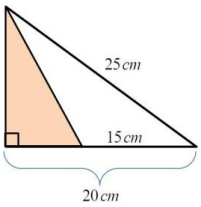
6. Find the area of the square CDEF:



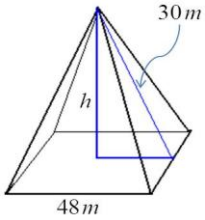
7. Find the area of the triangle.



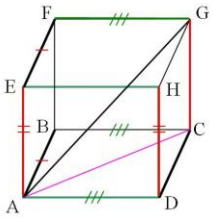
8. Find the area of the shaded triangle.



9. A square base pyramid has a base length of 48 m and slant height of 30 m. Calculate the height of the pyramid.



10. Given EF = 9, FG = 10, & AE = 8. Find the length of AG, to 2 decimal place



11. A square has an area of $121m^2$. If we double the area of the square, what would the length of the diagonal be?