Hill Side School

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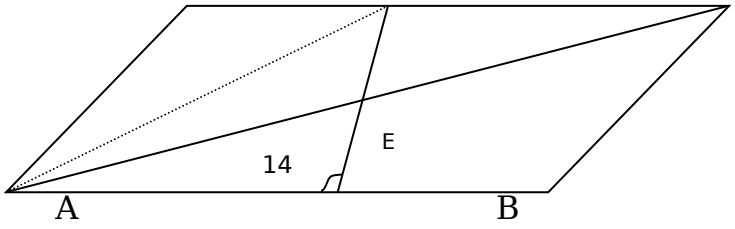
Full Name: _____ Grade: 7 Section: _____

Subject: MATHEMATICS Year: 2012 E.C work sheet 5

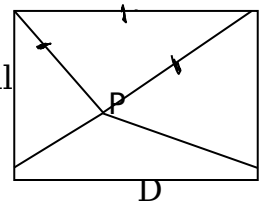
PLEASE ATTEMPT THE FOLLOWING QUESTIONS AFTER STUDYING THE NOTES ON YOUR TEXT BOOK FROM PAGE 136-148.

Work out (show the necessary step clearly.

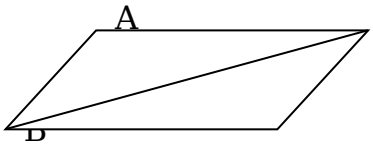
1. ABCD is a prallellogram. P is on BD produced such that m (<CBP) =140° , if AC and BD intrest at E with m (<DEC) = 100° and m(<ABD) = 20° then find
   A. M (<DAC)
   B. M(<DCA)
2. In the figure below ABCD and ACPQ are two rhombus such P is on CD and Q is on AB produced if m(<ABC) = 140° and AP and BC interest at E find
   A. m(<CLP)
   B. m(<CAP)



3. In the fiuger to the right ABCD is a square if p is a point insides a square such that △ABP is an equilateral triangle find m(<DPC)



4. If the figure to the right ABCD is a rhombus show that $\overline{BD}$ is th bisector of <ABC



5. Show that the total sum interior angle of a pentagon is 540^0.

6. In a pentagon ABCD, diagonals BE and BD are congruent (equal) ,△ABE and △CBD are isosceles right triangles where m(<EAB)= m(<DCB) = 90° find the measure of <B if it 15° more than the measure of <D?

7. In the figure below CD AB with AB= 120 and if the vertex C is moved to E by 3cm what is the area of the shaded region.

