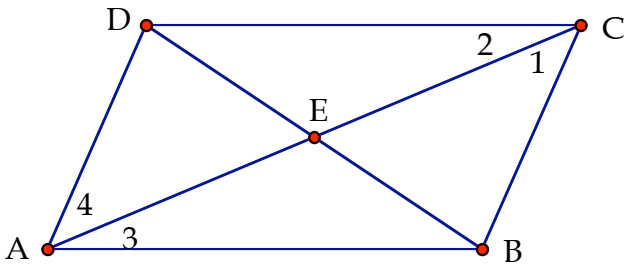
Chapter 6: Quadrilaterals Name _____
Lesson 6-1: Parallelograms
Classwork

Complete each statement.

1. In a parallelogram, opposite angles are _____ .
2. In a parallelogram, opposite sides are _____ and _____ .
3. In a parallelogram, consecutive angles are _____ .
4. How many sides does every parallelogram have? _____
5. Are the diagonals congruent in a parallelogram? _____
6. In parallelogram ABCD, $\overline{AB} \cong$ _____ .
7. In parallelogram ABCD, <B is consecutive to < _____ and < _____ .
8. In parallelogram ABCD, if m<C = 47°, then m<A = _____, m<B = _____, and m<D = _____ .
9. In parallelogram ABCD if the diagonals intersect at P, then $\overline{AP} \cong$ _____ and $\overline{BP} \cong$ _____ .
10. In parallelogram ABCD, $\overline{AD} \parallel$ _____ .

ABCD is a parallelogram. State the reason that justifies each statement.

11. <DAB ≅ <DCB
12. $\overline{BE} \cong \overline{ED}$
13. $\overline{AD} \cong \overline{BC}$
14. <DAB and <ABC are supplementary
15. $\overline{AD} \parallel \overline{BC}$
16. <3 ≅ <2



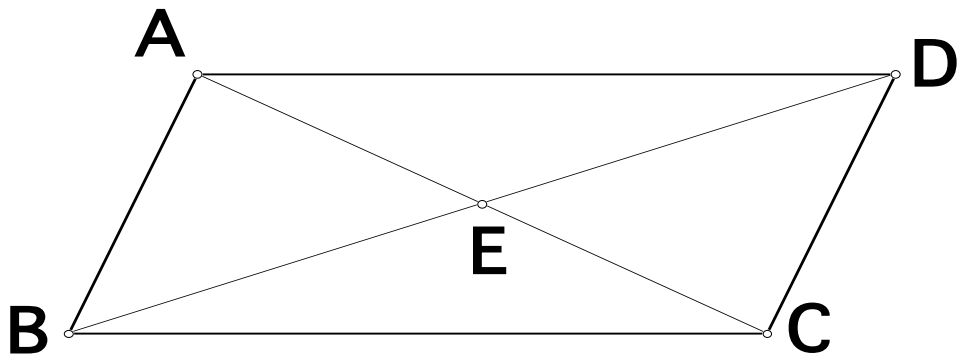
Complete each statement, using the diagram from #11-16.

17. If AD = 20, BC = _____
18. If m<ADC = 115°, then m<ABC = _____
19. If DB = 22, then DE = _____
20. If AE = 18, then AC = _____
21. If m<DAB = 75°, m<ADC = _____
22. If m<1 = 30°, then m<4 = _____
23. If m<AED = 72°, m<DEC = _____
24. If m<ADC = 130° and m<1 = 35°, m<2 = ___

Lesson : **Parallelogram** Name _____
Integrated III

Find the missing measurements of Parallelogram ABCD.

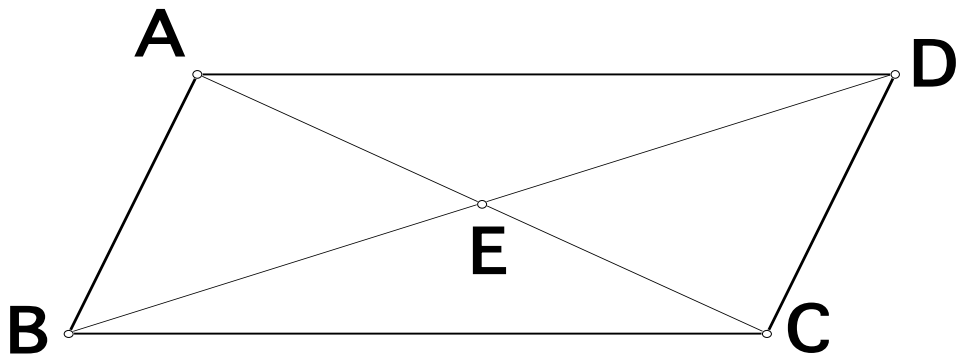
AB = 4
BC = 16
CD = _____
DA = _____
AC = 14
DB = 18
AE = _____
BE = _____
CE = _____
DE = _____



m<ABE = 38˚ m<EBC = 24˚ m<BCE = 30˚ m<ECD = _____
m<CDE = _____ m<EDA = _____ m<DAE = _____ m<EAB = _____
m<AEB = _____ m<BEC = _____ m<CED = _____ m<DEA = _____

Find the missing measurements of Parallelogram ABCD.

AB = 10
BC = 24
CD = _____
DA = _____
AC = _____
DB = _____
AE = 12
BE = 13
CE = _____
DE = _____



m<ABE = 47˚ m<EBC = 27˚ m<BCE = _____ m<ECD = 72˚
m<CDE = _____ m<EDA = _____ m<DAE = _____ m<EAB = _____
m<AEB = _____ m<BEC = _____ m<CED = _____ m<DEA = _____