

Name: _____ Hour: _____

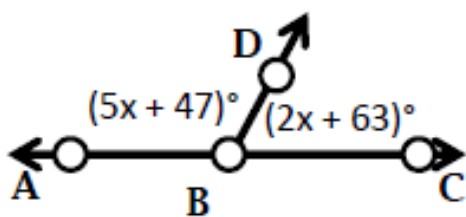
Why Are Cows So Good At Math? (Angle Relationships Practice)

Directions: Solve each problem to find the value of x or the missing part of the figure, and find its matching answer in the answer box. Decode the answer to the riddle using the letter of the answer associated with each question. Show all of your work.

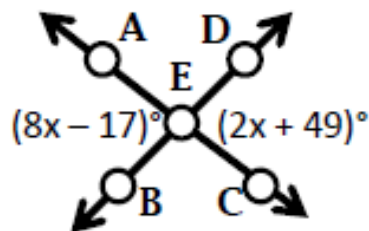
Answer:

$\overline{1}$ $\overline{12}$ $\overline{8}$ $\overline{11}$ $\overline{4}$ $\overline{7}$ $\overline{12}$ $\overline{2}$ $\overline{13}$ $\overline{12}$ $\overline{5}$ $\overline{6}$ $\overline{15}$ $\overline{3}$ $\overline{12}$
 $\overline{2}$ $\overline{15}$ $\overline{8}$ $\overline{15}$ $\overline{9}$ $\overline{14}$ $\overline{2}$ $\overline{10}$

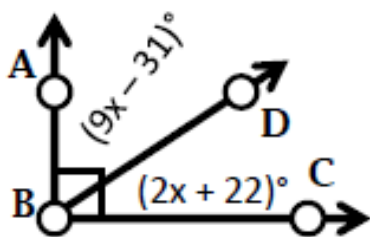
1. $m\angle DBC =$ _____



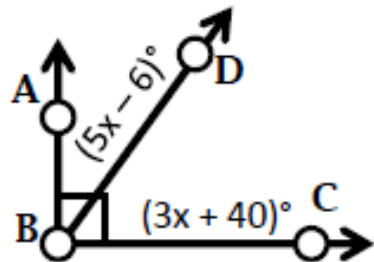
2. $m\angle AEB =$ _____



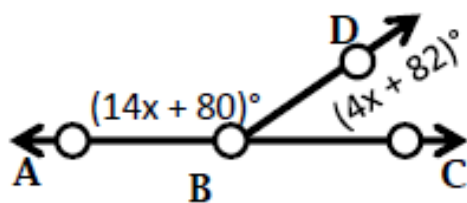
3. $m\angle DBC =$ _____



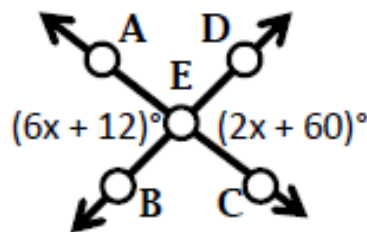
4. $m\angle DBC =$ _____



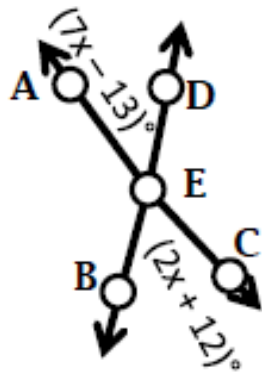
5. $m\angle ABD =$ _____



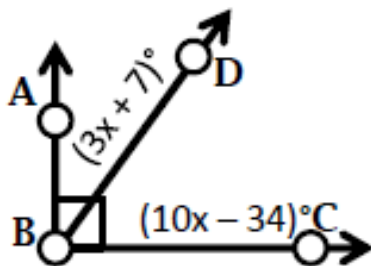
6. $m\angle DEC =$ _____



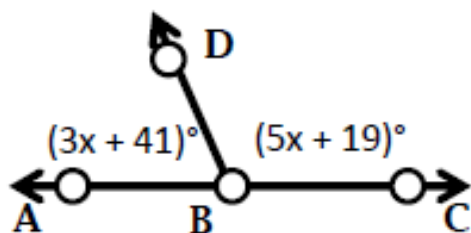
7. $m\angle CEB =$ _____



8. $m\angle ABD =$ _____



9. $m\angle ABD =$ _____



10. If $\angle ABD$ and $\angle DBC$ are complementary where $\angle ABD = (2x + 22)^\circ$ and $\angle DBC = (6x - 4)^\circ$. What is $m\angle DBC$?

11. If $\angle ABD$ and $\angle DBC$ form a linear pair where $\angle ABD = (2x + 68)^\circ$ and $\angle DBC = (12x + 28)^\circ$. What is $m\angle ABD$?

12. If $\angle AEB$ and $\angle DEC$ are vertical angles where $\angle AEB = (8x - 9)^\circ$ and $\angle DEC = (3x + 31)^\circ$. What is $m\angle AEB$?

13. If $\angle AEB$ and $\angle DEC$ are vertical angles where $\angle AEB = (10x + 12)^\circ$ and $\angle DEC = (13x - 9)^\circ$. What is $m\angle DEC$?

14. If $\angle ABD$ and $\angle DBC$ are complementary where $\angle ABD = (2x - 16)^\circ$ and $\angle DBC = (8x + 6)^\circ$. What is $m\angle ABD$?

15. If $\angle ABD$ and $\angle DBC$ form a linear pair where $\angle ABD = (2x + 40)^\circ$ and $\angle DBC = (8x + 20)^\circ$. What is $m\angle DBC$?

Answer Box:

A	80°	B	83°	C	34°	E	55°	H	82°
L	84°	N	4°	O	116°	S	22°	T	71°
U	61°	V	40°	W	86°	Y	94°	!	50°