EDUCATIONAL ASSIGNMENT for JOSEPH JOHN WUNDERLICH for 11th grade

This assignment covers the following Educational Objectives (Subjects marked with a "■" are the main subject, and those marked with an "□" are secondary subjects):

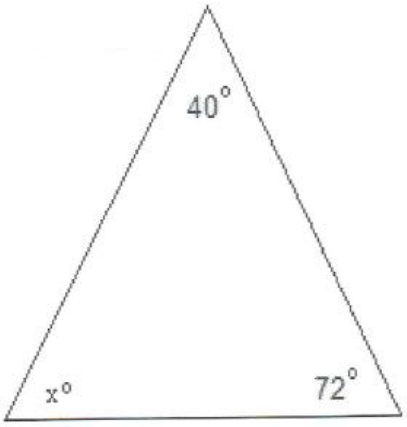
- ■ Geometry

Solve the following problems. Use a pencil.

1. If the degree measures of the three angles of a triangle are $40°$, $z°$, and $z°$, what is the value of z ?

(A) 100
(B) 90
(C) 80
→(D) 70
(E) 60

180
−40
140 ÷ 2 = 70



2. In the triangle above, x=

(A) 62
(B) 64
(C) 66
→(D) 68
(E) 70

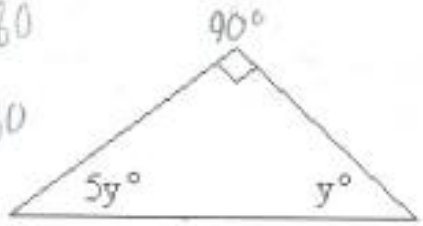
40
+72
112

180
−112
68

$90 + 5y + y = 180$

$90 + 6 \times 15 = 180$

$180 = 180$



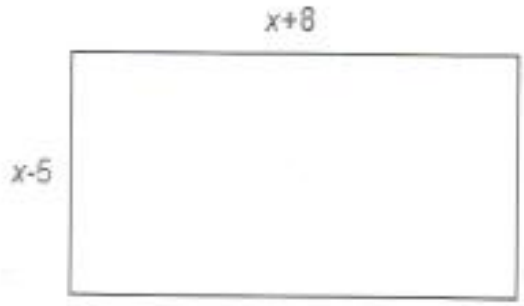
Note: Figure not drawn to scale.

3. In the right triangle above, what is the value of y ?

→(A) 15
(B) 18
(C) 21
(D) 30
(E) 60

$(18-5)+(18+8) = 78$

$13 + 26 = 39 \times 2 = 78$



4. If the perimeter of the rectangle above is 78, what is the value of x?

(A) 20
(B) 19
→(C) 18
(D) 17
(E) 16

a $15 + 28 = 43 \times 2 = 86$

b $14 + 27 = 41 \times 2 = 82$

→ C $13 + 26 = 39 \times 2 = 78$

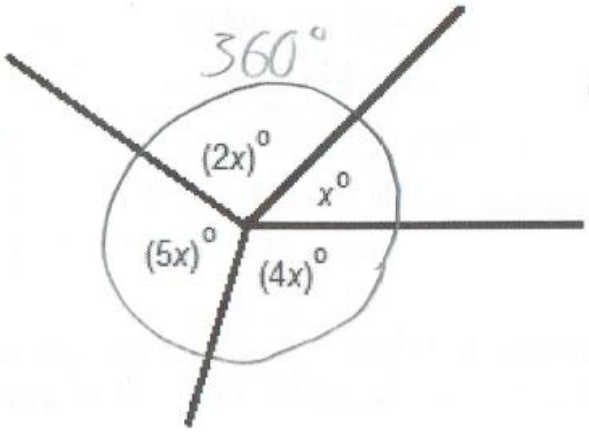
d $12 + 25 = 37 \times 2 = 74$

e $11 + 24 = 35 \times 2 = 70$

$x + 2x + 4x + 5x = 360°$

$12x = 360°$

$12 \cdot 30 = 360°$



$$12 \overline{)360} \quad 30$$
$$-36\downarrow$$
$$00$$

Note: Figure not drawn to scale.

5. In the figure above, four line segments meet at a point to form four angles. What is the value of x?

(A) 18
(B) 24
→(C) 30
(D) 40
(E) 60