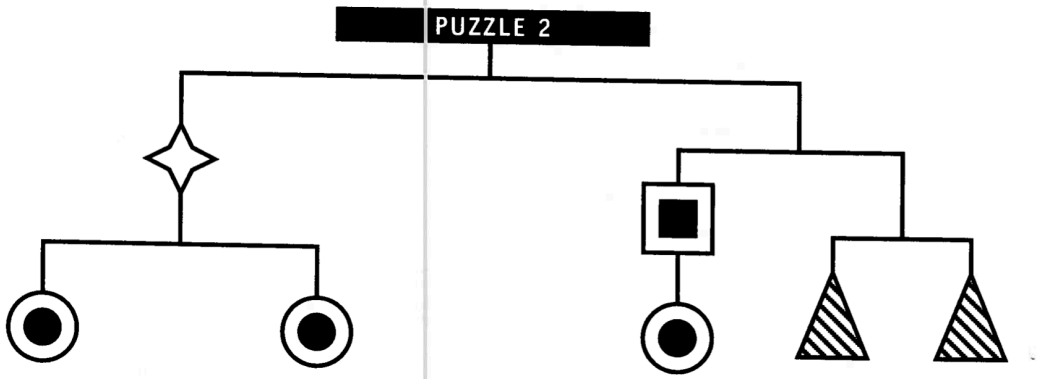
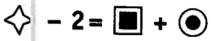
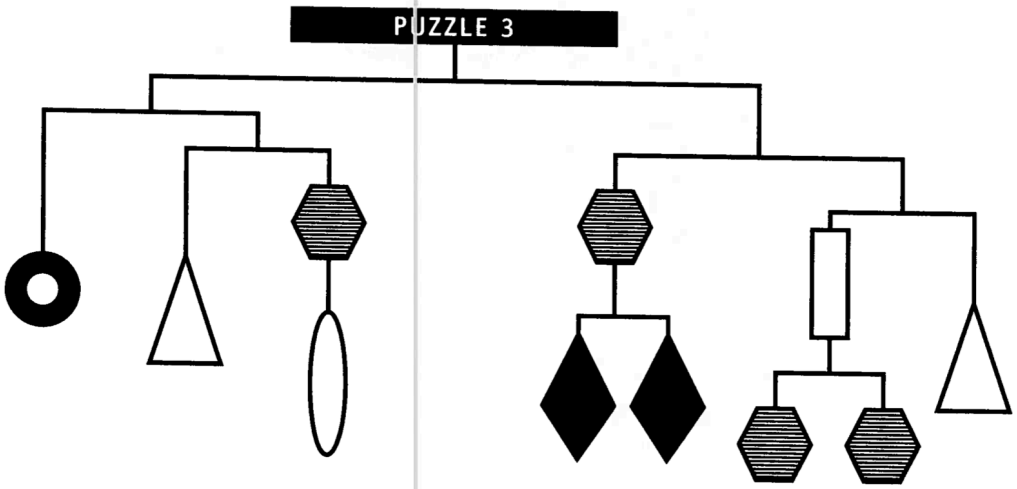
PUZZLE 2



Discover the value of each of the shapes.
The total weight is 32. Clue:

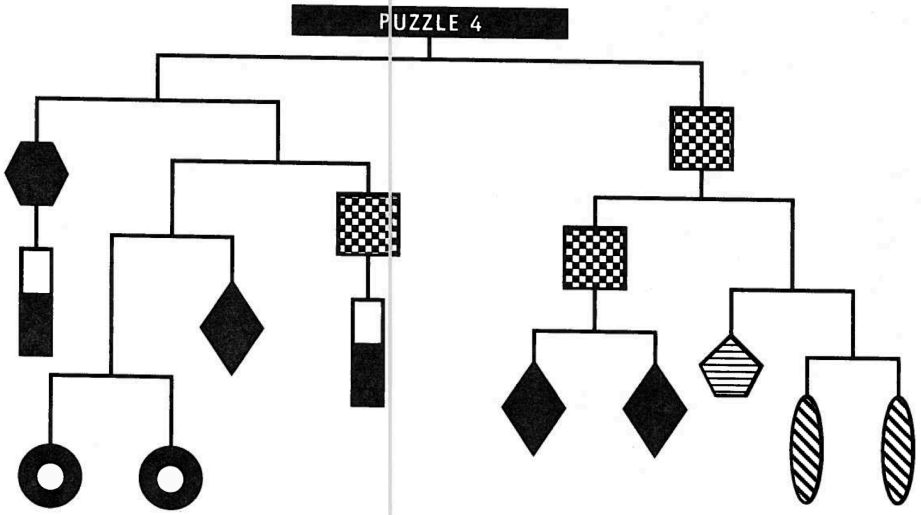


PUZZLE 3



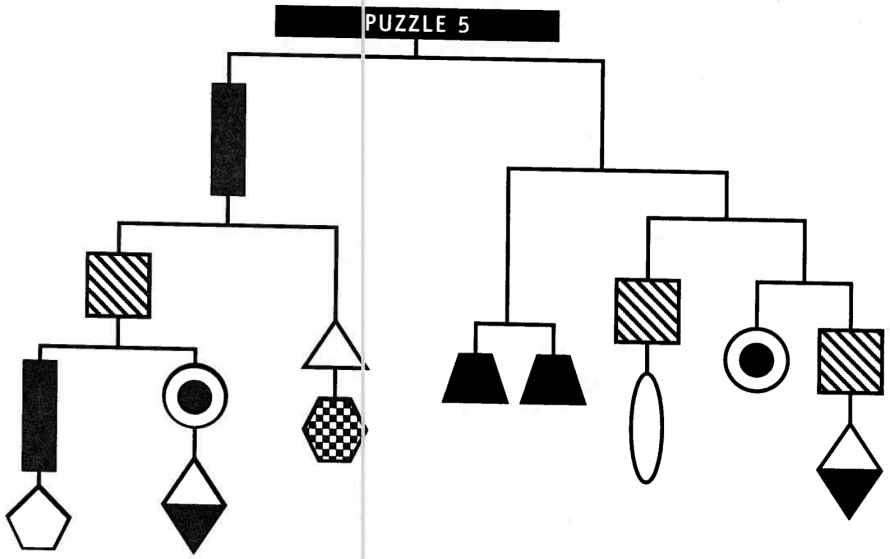
Discover the value of each of the shapes.
The total weight is 40.

PUZZLE 4

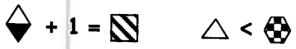


Discover the value of each of the shapes.
The total weight is 96.

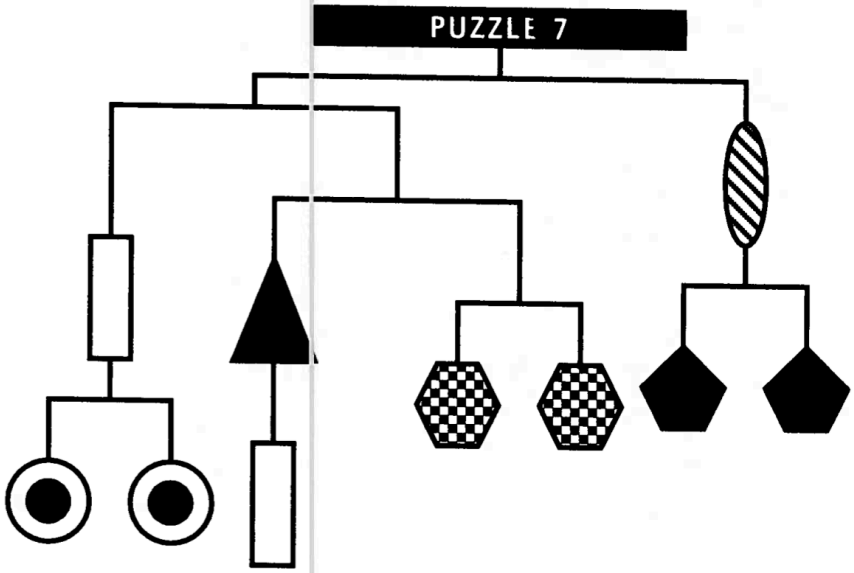
PUZZLE 5



Discover the value of each of the shapes. The total weight is 80. Only one shape weighs more than nine. Additional clues:

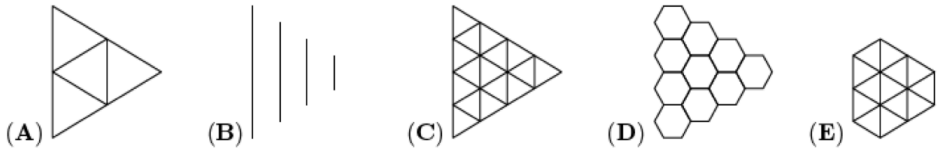


PUZZLE 7



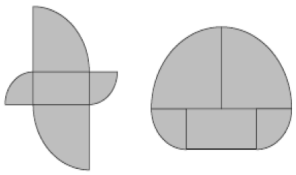
Discover the value of each of the shapes.
The total weight is 48. Clues:

7. The pattern on the picture is constructed by regular hexagons. Adam connects the centres of any two adjacent hexagons. Which of the following patterns is the result of Adam's drawing?

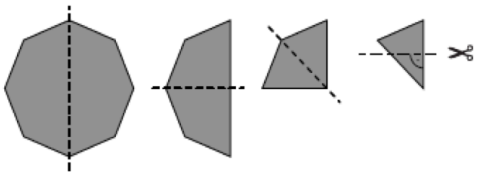


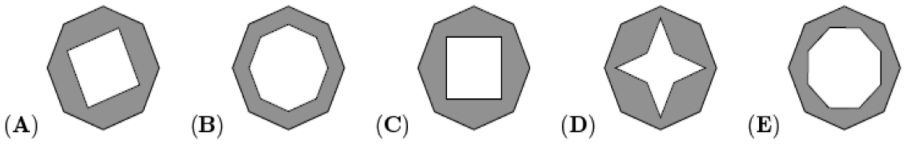
16. Both figures on the right are formed from the same five pieces. One of the pieces is a rectangle with a length of 10 cm and a width of 5 cm, and the other pieces are quarters of two different circles. What is the difference in the perimeter lengths of the figures?

(A) 2.5 cm (B) 5 cm (C) 10 cm (D) 20cm (E) 30cm

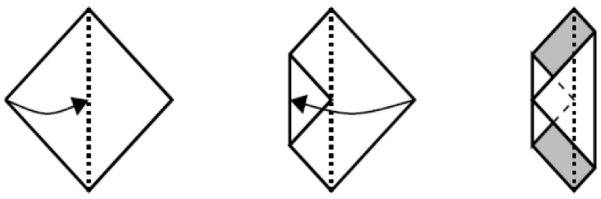


17. A regular octagon is folded in half exactly three times until a triangle is obtained, as shown. Then the vertex is cut off at right angles, as shown in the picture. If we unfold the paper what will it look like?





29. A square-shaped piece of paper is folded twice as shown in the picture. The area of the original square is 64 cm^2. What is the total area of the shaded rectangles?



(A) 15 cm^2 (B) 10 cm^2 (C) 16 cm^2 (D) 24 cm^2 (E) 14 cm^2