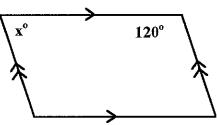
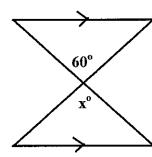
1 The diagram in which x is <u>not</u> equal to 60° is:

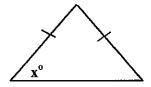
A



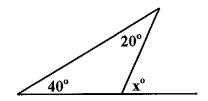
Έ



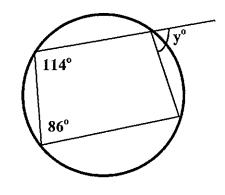
 \mathbf{C}



D

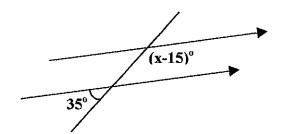


2 In the diagram, y is equal to:



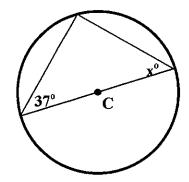
- A 66° B 86°
- C 94°
- D 114°

3 The value of x in this diagram is:



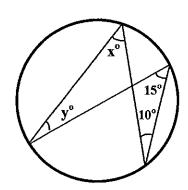
- A 35
- B 50
- C 145
- D 160

4 In this diagram, the value of x is:



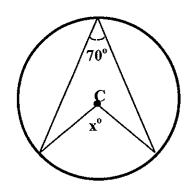
A 37 B 53 C 63 D 90

5 In this diagram, the value of x is:



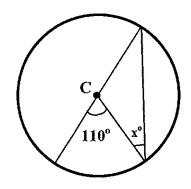
- A 10
 B 15
 C 25
 D weekle to be determined as
- D unable to be determined unless y is known

6 Angle x° equals:

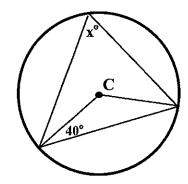


A 35° B 70° C 110° D 140°

7 The value of x is:



A 55 B 70 C 110 D 220 8 In this diagram, the value of x is:

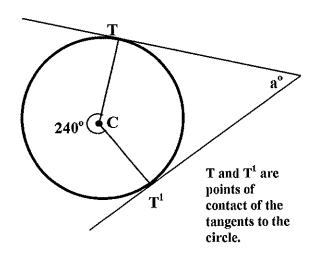


A 40 B 50 C 80 D 100

Α

 \mathbf{B}

9 The value of a is:

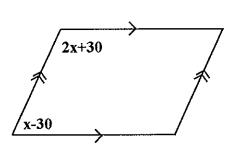


C 120°
D unable to be determined since there is insufficient information

30°

60°

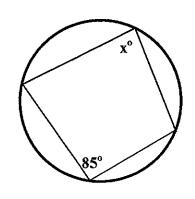
10 From this diagram, the value of x is:



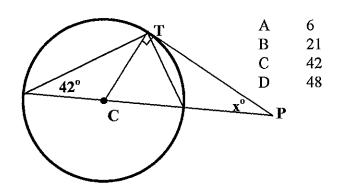
A 30 B 45 C 60

D unable to be determined since there is insufficient information.

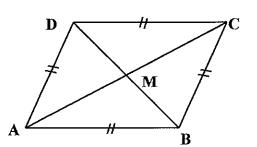
11 In the digrams x is equal to:



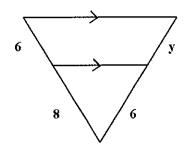
A 42.5 B 85 C 90 D 95 12 PT is a tangent to the circle of centre C. The value of x is:



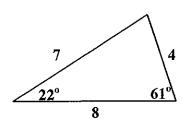
13 ABCD is a rhombus with diagonals AC and BD intersecting at M. The *incorrect* statement about this diagram is:

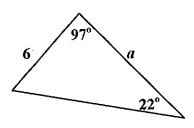


- A BD is perpendicular to AC.
- B BD is equal in length to AC.
- C Triangle DMA is similar to triangle CMB.
- D Triangles AMB and CMD are congruent.
- 14 From this diagram, y is equal to:



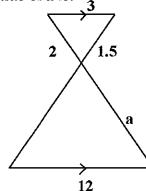
- A 3.5
- B 4
- C 4.5
- D 5
- 15 From the pair of triangles shown, the value of a is:





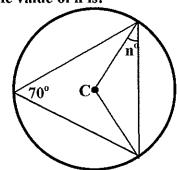
- A $3\frac{3}{7}$
- B $5\frac{1}{2}$
- C
- $10\frac{1}{2}$
- D 12

16 The value of a is:



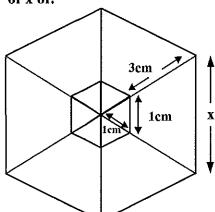
- A 6
- B 8 C 11
- D unable to be determined without further information.

17 The value of n is:



- A 20
- B 35
- C 40
- D 70
- A student enlarged a regular hexagon, as shown. The larger hexagon has a value of x of:

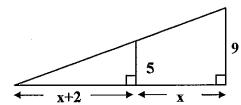
C



- A 3 cm and 3 times the original area.
- B 3 cm and 9 times the original area.
 - 4 cm and 4 times the original area.
- D 4 cm and 16 times the original area.

- A man cast a shadow of 150 cm at the same time that a building 40 m tall cast a shadow of 36 m. The height of the man was closest to:
 - A 135 cm
- B 154 cm
- C 166 cm
- D 167 cm

20 The value of x is:



A 4 B 6 C 8 D 10

ANSWERS TO GEOMETRY

1 C	2 B	3 D	4 B	5 B	6 D
7 A	8 B	9 B	10 C	11 D	12 A
13 B	14 C	15 C	16 B	17 A	18 D
19 D	20 C				