geometrY test review

1. Which angles are complementary?

100°	85°	25°	65°
I	II	III	IV
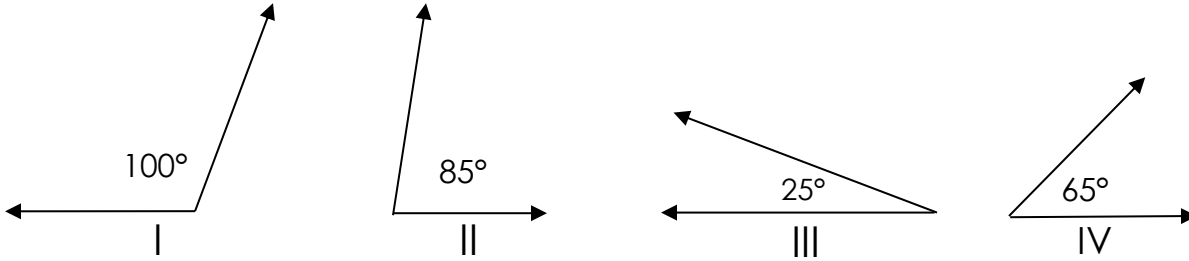
A III & IV   B I & IV   C I & II   D II & III

2. If $\angle 1$ measures 55° and $\angle 1$ and $\angle 2$ are supplementary, what is the measure of $\angle 2$?

A 25°   B 35°

C 125°   D 115°

3. Which pair of angles are NOT complementary?

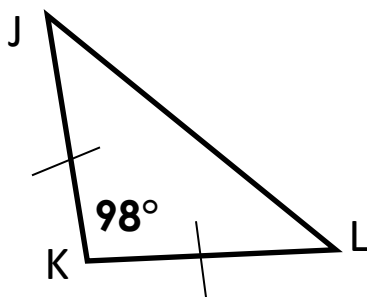A m$\angle$B = 25° and m$\angle$C = 65°   C m$\angle$B = 45° and m$\angle$C = 135°

B m$\angle$B = 60° and m$\angle$C = 30°   D m$\angle$B = 15° and m$\angle$C = 75°

4. A triangle has side lengths of 6mm, 6mm, and 6mm.
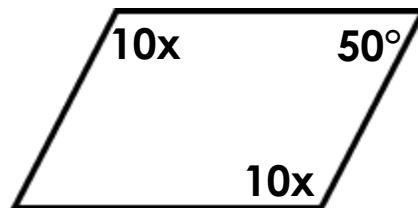Which of the following best describes this triangle?
A Equilateral   B Scalene

C Obtuse   D Isosceles

5. Find the measure of $\angle$ KJL.

A 82°   B 131°

C 41°   D 52°

6. Find the value of x in the parallelogram below.
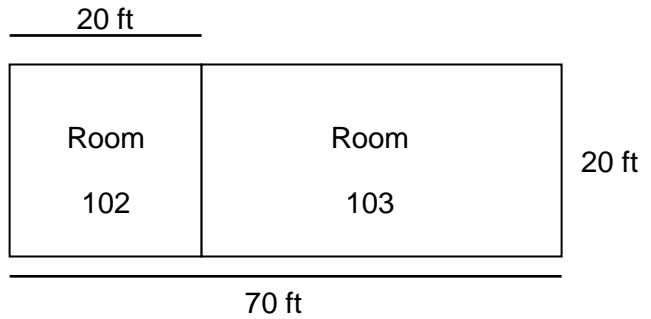

A 10°   B 13°

C 130°   D 260°

Use the picture of the classrooms for #7-8
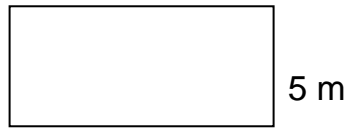
7. What is the perimeter of room 102?

8. What is the area of room 103?
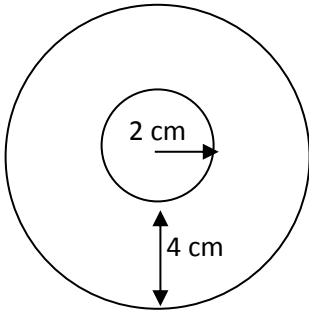
20 ft

Room	Room
102	103

20 ft

70 ft

9. The area of a square is 81 mm².
What is the **perimeter** of the square?

10. A rectangle has a perimeter of 40 m. If it is 5 m wide, **what is its area?**

5 m

11. The drawing shows 2 circles that share a common center point.

2 cm

4 cm

Which expression can be used to find the approximate circumference of the outer circle in centimeters?

A $2\pi(2 + 4)$ B $2(2 + 4)$

C $\pi(2 + 4)$ D $\frac{1}{2}(2 + 4)$

12. John's bike tire has a radius of 9 inches. How far will the bike travel in one rotation? (Use $\pi=3.14$)

13. Ginger picked out a new rug for her living room. She bought a circular rug and wanted to add fringe around the edge of the rug, How much fringe would she need if the diameter of the rug is 7 feet? (Use $\pi=3.14$)
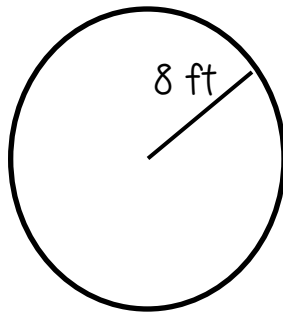
12. Which shape covers the largest area?
    Prove it with your work.

A) A square with sides that are 15 cm.
B) A circle with a diameter of 10 cm.
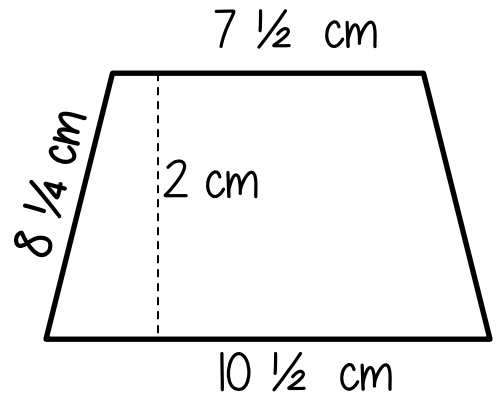C) A triangle with a base of 10 cm and a height of 10 cm.
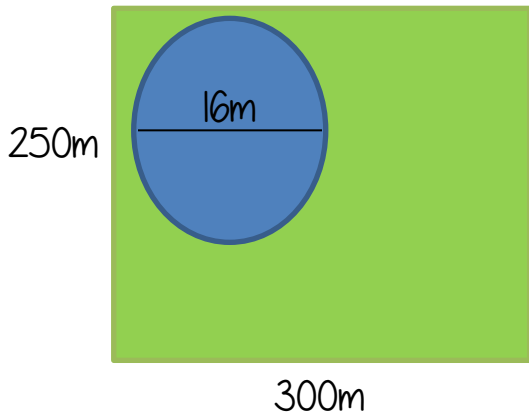
15-17. Find the area of the given shapes.

5 m

4½ m

6 m

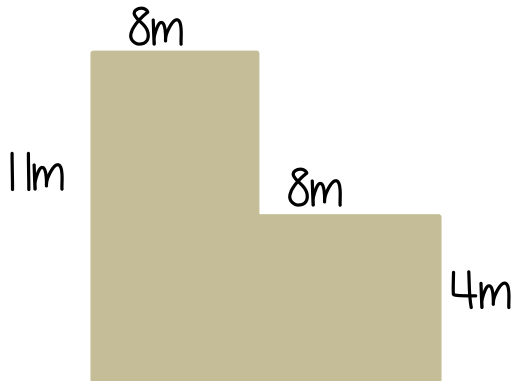15. Area=_____

8 ft

16. Area=_____

7 ½ cm

8 ¼ cm

2 cm

10 ½ cm
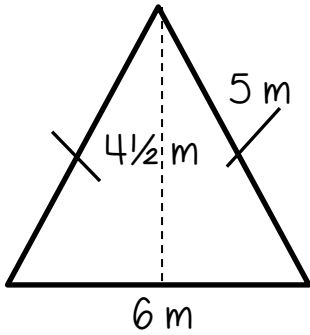
17. Area=_____

18. The Montgomery's are building a circular pond in their backyard. Find the area of the yard after the pond is put in.

250m

16m

300m

19. Find the area of Billy's dog pen.

8m

11m

8m

4m

20. What is the area of the shaded figure below?

12 in

4 in

10 in