Math grade 8 camp on class 22 homework

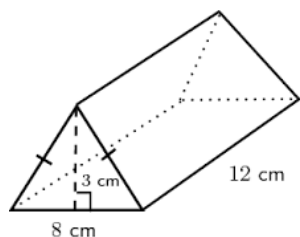First name: _____ Last name: _____   Student ID: _____
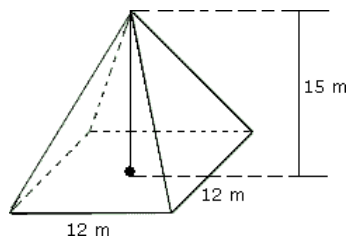
Review 2 Homework

1.

3.

$(4x - 6)°$

$(3x + 8)°$

5

4

l

m

X = _____

$m \angle 4 =$ _____ $m \angle 5 =$ _____
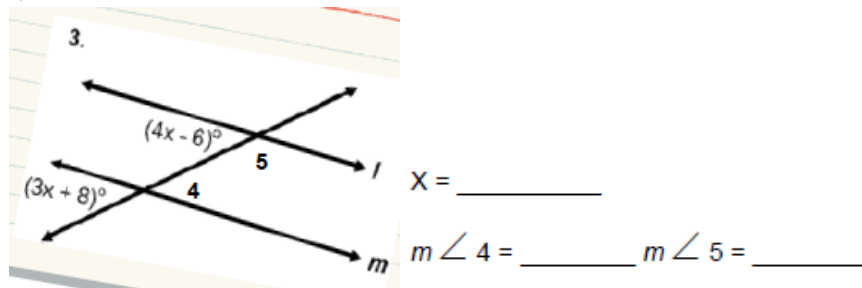
2. Find the surface area and volume of each figure.

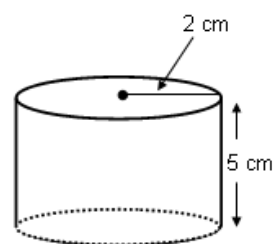a)

3 cm

8 cm
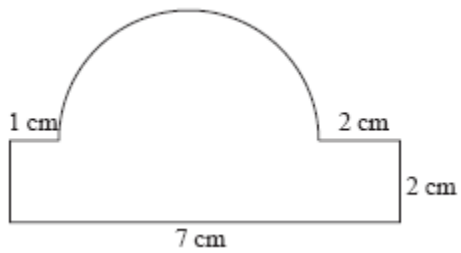
12 cm

b)

15 m

12 m

12 m

c)

2 cm

5 cm

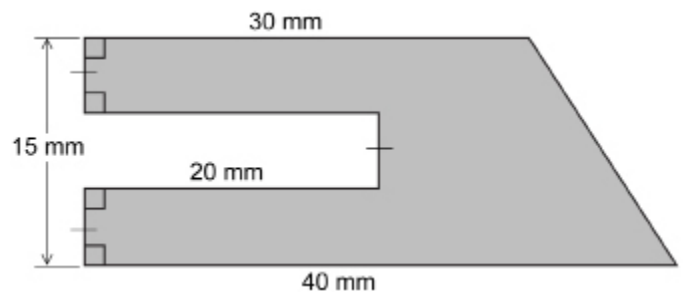3. What is each interior angle of a regular octagon?

4. What is each exterior angle of a regular decagon?
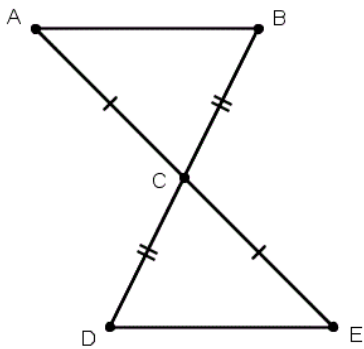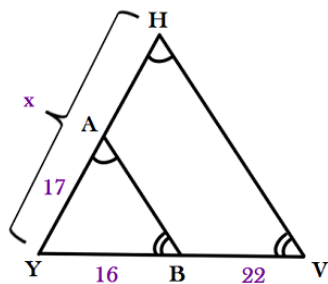
5. Find the perimeter and the area.

a)

b)

6. Prove the two triangles are congruent.

7. Find the value of x.

8. On a sunny day, Bill wants to find the height of a tree. He walks 25 feet along the shadow that the tree casts until his shadow ends at the same point as the tree's shadow. Bill is 6 feet tall and the length of his shadow is 9 feet. How many inches tall is the tree?

9. There are a hundred balls, each marked with a number from 1 to 100. They are placed in a bag and one ball is taken out at random. What is the probability that the number on the ball is:

a) Odd

b) a multiple of 3

c) not a 7

10. What is the probability of drawing 2 queens from a deck of cards?

11. A coin has been weighted, so that the probability of getting a head is 2/5 and the probability of getting a tail is 3/5. The coin is thrown twice. Determine the probability of obtaining:

a) 2 heads   b) at least one head

12. The probability that Ravi does his homework is 1/10 if he goes out with his friends and 3/5 if he doesn't go out with his friends. The probability that Ravi goes out with his friends is ¾. What is the probability that Ravi does his homework?