Math 20-2
Review 1

**Please complete the following review questions.**
Open a new word document and type in your answers.
If you have trouble with any of the questions, please put that in your document and I can provide some help.
Name your file m20_2_rev1_username (replace username with your username).
Post to the correct Assignment Dropbox.

Use the following information to answer questions 1 and 2.

The diagram below shows the floor plan of Delilah's living room.

3.8 m

5.5 m
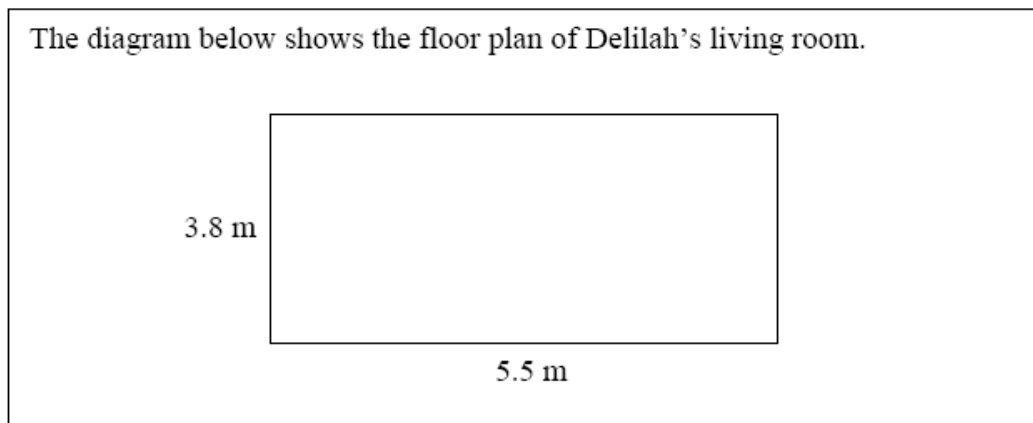
1. How much would it cost to carpet Delilah's room if the cost of carpet is $30.00/m^2?

A. $279.00
B. $627.00
C. $730.00
D. $797.00

2. If Delilah wanted to paint a stripe on the ceiling of her room, what is the longest straight line she could paint?

A. 5.5 m
B. 6.7 m
C. 9.3 m
D. 20.9 m

3. Gabriel has 2.7 square meters on her bedroom wall available for a circular painting. What is the radius, in metres, of the largest possible circle painting that she could paint?

A. 0.75 m
B. 0.93 m
C. 1.5 m
D. 1.8 m

4. The area of a square is 496 cm^2.

The diagram below shows the floor plan of Delilah's living room.

Area = 496 cm^2
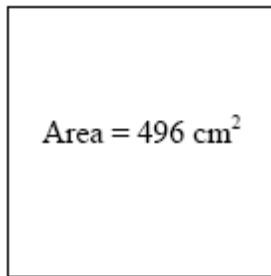
 Between which two consecutive integers does the length of each side of the square lie?

A. 70 cm, 71 cm
B. 72 cm, 73 cm
C. 23 cm, 24 cm
D. 22 cm, 23 cm

5. What determines the name of a prism?

A. The shape of the lateral face of the prism
B. The shape of the base of the prism
C. The number of corners in the prism
D. The number of faces that make up the prism

6. The measure of <ABC is
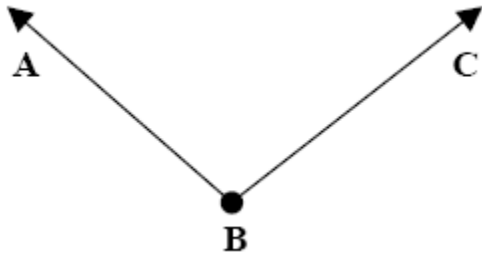
A. 37°
B. 82°
C. 91°
D. 100°

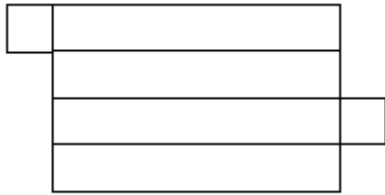Use the following information to answer question 7.

At the 1982 New Year Festival in Ottawa, 17 000 people joined hands on the frozen Rideau Canal to form a human chain.

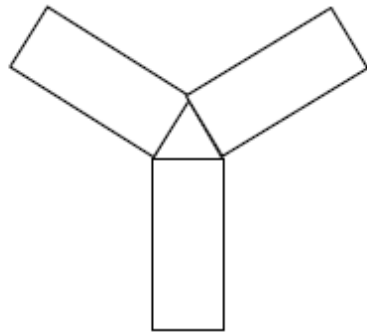7. The most reasonable estimate of the length of this human chain is

A. 2 km
B. 20 km
C. 200 km
D. 2 000 km

8. Boxes from factories are shipped in the form of nets to save shipping space. Which net could be made into a rectangular prism?
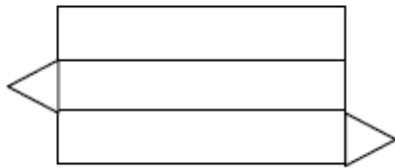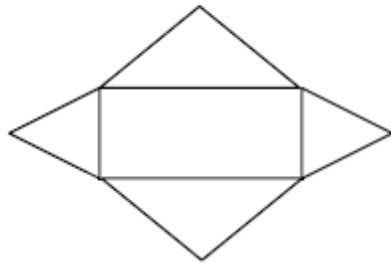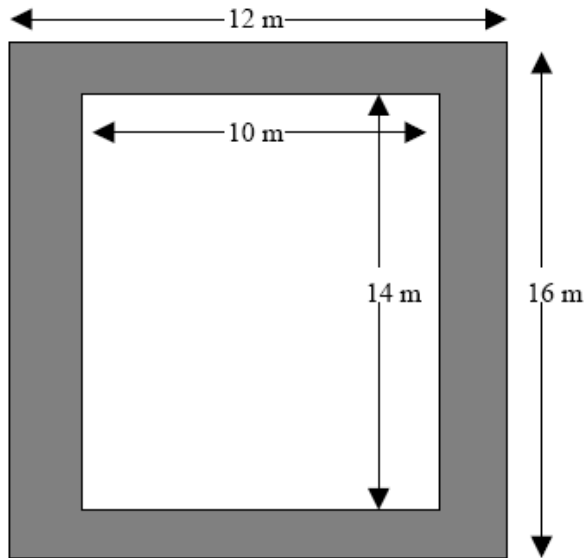
A.

B.

C.

D.

Use the following information to answer question 9 and 10.

The shaded region of this diagram represents the top view of a
trench that a contractor dug.

9. If the contractor removed 208.5 m³ of dirt from the trench, the depth of the trench to the
nearest tenth of a metre is

A. 26.1 m
B. 2.0 m
C. 0.7 m
D. 0.5 m

10. The contractor was required to cover the bottom of the trench with plastic before further
construction could be done. If one roll of plastic contains 10m², how many rolls did the
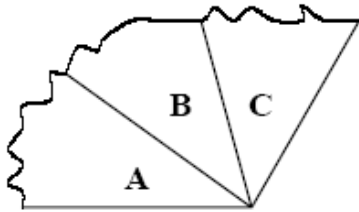contractor need?

A. 5
B. 11
C. 52
D. 140

Use the following information to answer question 11.

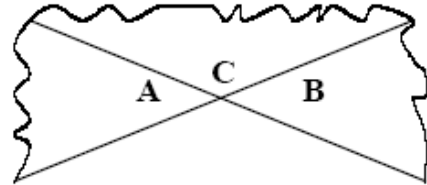The angles of a paper triangle were torn off as shown in this figure.
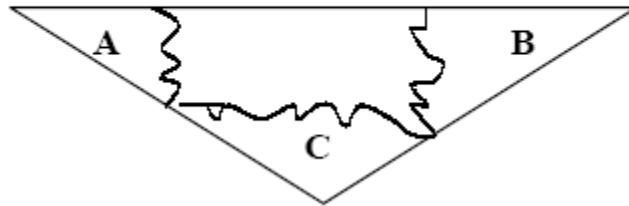
11. Which of the following diagrams best represents the sum of the angles?
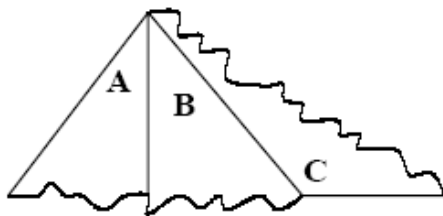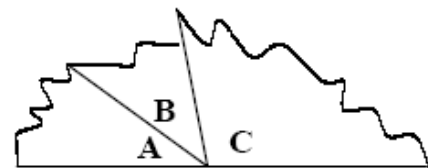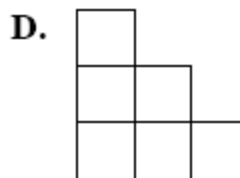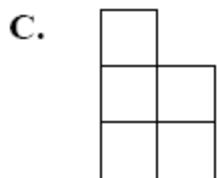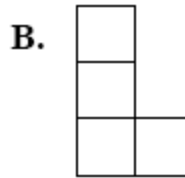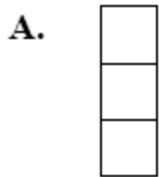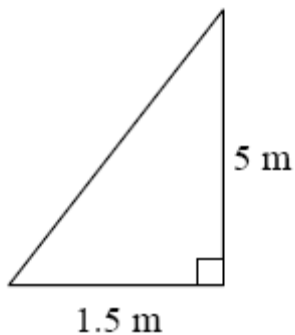
A.

B.

C.

D.

12. Six cubes were used to build this model.

Choose the best sketch for the side view

A.

B.

C.

D.

13. Kenda is about to paint the front of a building. His ladder must reach a height of 5 m on the building, and the bottom is set 1.5 m from the base of the building because of the landscaping. What is the angle of the ladder to the ground?

5 m

1.5 m

A. $16.7°$
B. $17.5°$
C. $72.5°$
D. $73.3°$

14. A milkshake glass has a diameter of 10 cm at the brim, and is 18 cm high. If the glass has the following shape, what is its volume?
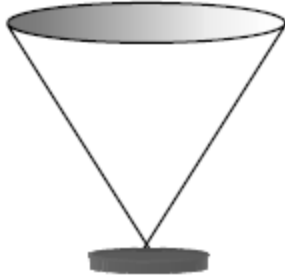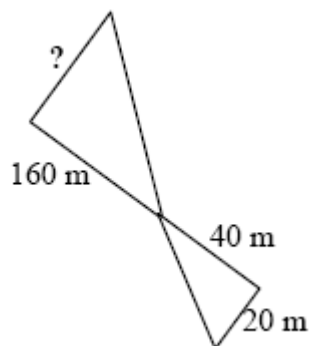

A. 1885 cm^3
B. 1414 cm^3
C. 600 cm^3
D. 471 cm^3

15. Choose the correct views for the top, front, right, and left elevations of the object in the following diagram

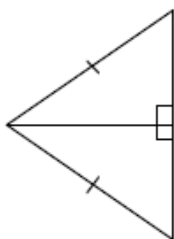|	Top	Front	Right	Left
A.				
B.				
C.				
D.				

16. Given the following information in the following diagram, what is the missing length?

A. 40 m
B. 80 m
C. 160 m
D. 320 m

17. Which of the following pair of triangles is not necessarily congruent?
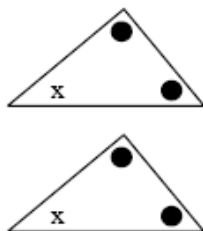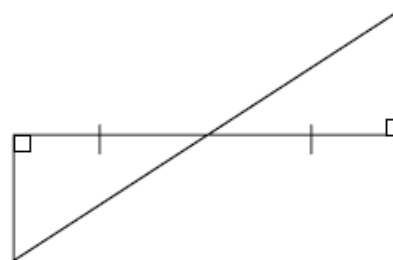
A.

B.

C.

D.

18. Triangle XYZ has vertices X(1,-4), Y(-2,5), and Z(3,-6). If it is reflected about the y-axis, what are the coordinates of the image X`Y`Z`.
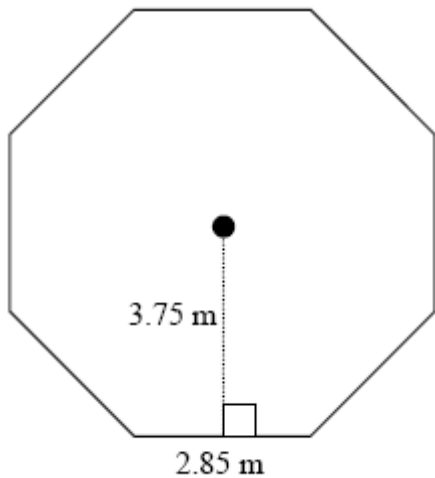
A. X`(-1,-4)  Y`(2,5) Z`(-3,-6)
B. X`(1,4)  Y`(-2,-5) Z`(3,6)
C. X`(-1,4)  Y`(2,-5) Z`(-3,6)
D. X`(1,-4)  Y`(-2,5) Z`(3,-6)

19. The triangle in the diagram was moved from its original position by adding 1 to its x-coordinates and 3 to its y-coordinates an then reflect over the x-axis. What was the original position of the triangle?
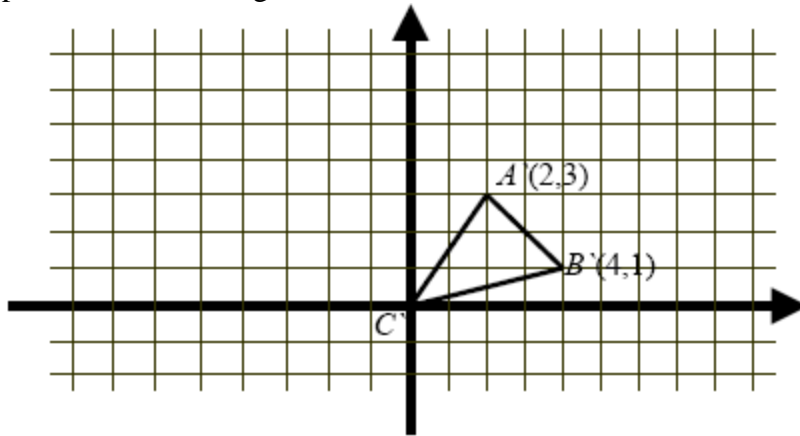
A. A(1,-6) B(3,-4) C(-1,-3)
B. A(-1,6) B(-3,4) C(-1,3)
C. A(1,0) B(3,2) C(1,3)
D. A(1,0) B(3,2) C(-1,3)

20. Choose the best answer for the area of this regular polygon.

3.75 m

2.85 m

A. 85.50 m^2
B. 42.75 m^2
C. 42.8 m^2
D. 43 m^2