Integrated Math I Summer Review Packet
2019 -2020

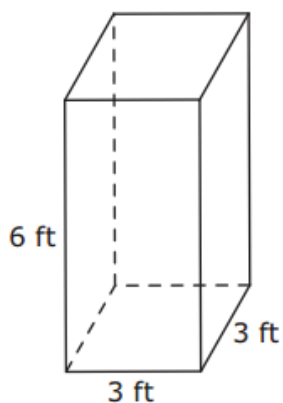## WEEK – 3

NAME: _____

DUE: THE FIRST DAY OF SCHOOL

The problems in this packet are designed to help you review topics from previous mathematics courses that are essential to your success in Integrated Math II. **<u>You are expected to bring this completed packet to class on the first day of school.</u>** In addition, this packet will count as part of your first quarter grade. **Upon returning, you will be ASSESSED on the content of this packet**. All contents outlined in the packet are Integrated Math I objectives. Neatly **SHOW YOUR WORK** on a separate sheet of paper.

Edulastic

Summer Packet G7 entering G8 week3 19/20   Collection: **Private**

Created by Edwin Victor-Louis

Q1: What is the surface area of the figure below?

6 ft

3 ft

3 ft

A $12 \ \text{ft}^2$

B $36 \ \text{ft}^2$

C $54 \ \text{ft}^2$

D $90 \ \text{ft}^2$

Q2: Find the area of the circle.

$r = 14 \text{ m}$
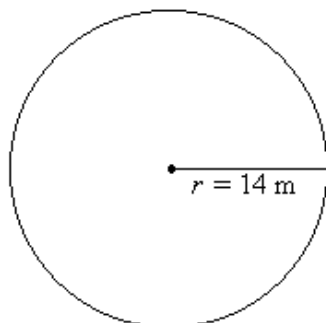
Use $\pi = 3.14$ and round your answer to the nearest hundredth.

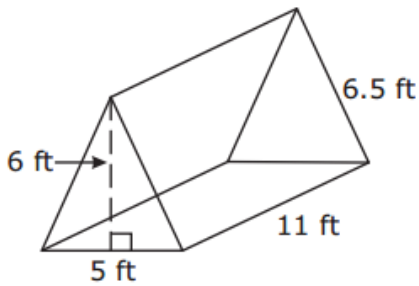$\boxed{} \ \text{m}^2$

Q3: The measure of $\angle AOC$ is $90°$.

Find the value of x.
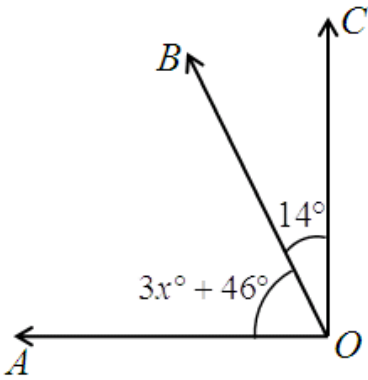
A 11

B 10

C 30

D 50
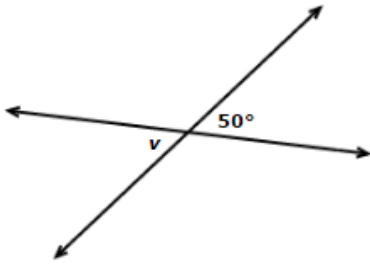

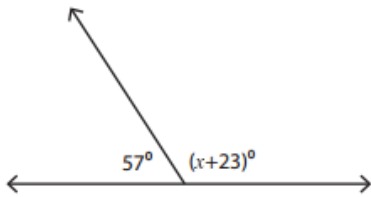**Q4:** What is the volume of this triangular right prism?

A 165 ft^3

B 330 ft^3

C $1,073 \text{ ft}^3$

D $2,145 \text{ ft}^3$

Q5: Consider the following figure and find the value of v ?

Answer: [   ] degree.

Q6: Find the value of x in the figure.

$x =$ [   ] °
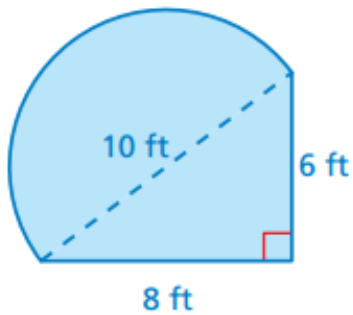

Q7: The figure is made up of a semicircle and a triangle.
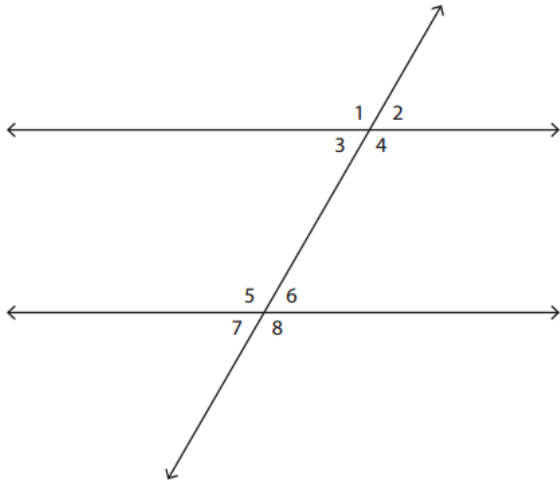Find the area of the figure.
Use $\pi = 3.14$

[   ] square feet

Q8: Match the following pair of angles with their respective definitions.

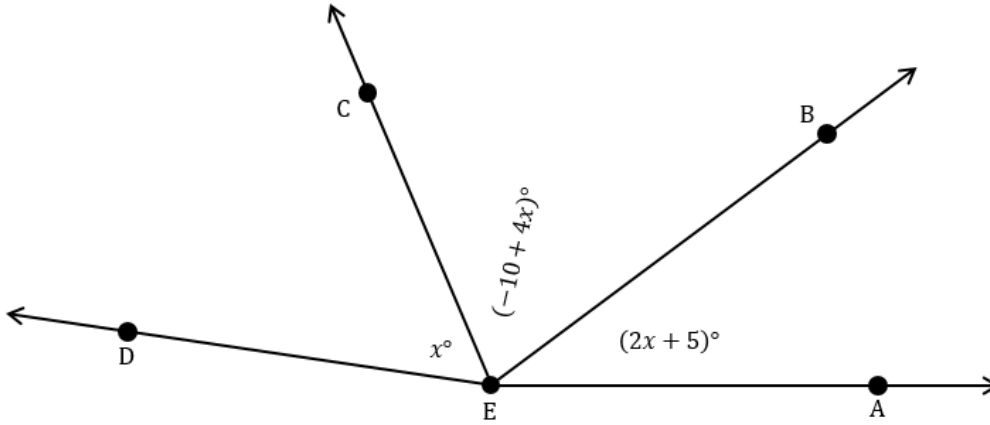| $\angle 3$ and $\angle 7$ | $\longleftrightarrow$ | |
$\angle 2$ and $\angle 7$	$\longleftrightarrow$	
$\angle 4$ and $\angle 5$	$\longleftrightarrow$	
$\angle 3$ and $\angle 6$	$\longleftrightarrow$	

ANSWER CHOICES

Alternate Exterior Angles

Corresponding Angles

Alternate Interior Angles

Alternate Interior Angles

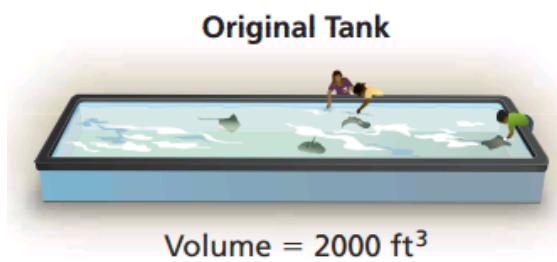**Q9:** If the sum of the measures of the three angles shown is $163°$, what is the measure of $\angle CEB$?

A $24°$

B $53°$

**C** $86°$

D $139°$

Q10: An aquarium is expanding its touch tank exhibit and is going to double the dimensions of the original tank.

If the volume of the original tank was $2,000 \text{ ft}^3$, **what is the volume of the new touch tank?**

Original Tank

Volume = 2000 ft^3

A $16,000 \text{ ft}^3$

B 8000 ft^3

C 4000 ft^3

D 150 ft^3

Q11: Taylor wants to use a scale factor of $\frac{1}{2}$ to make a smaller drawing of the door image shown. Part of her work is shown. Finish her work to find the height and width of her scale drawing.
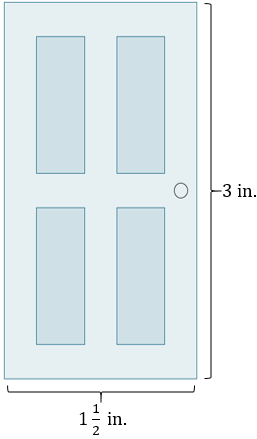
Height: 3 in. $\times$ [   ] $=$ [   ] in.

Width: $1\frac{1}{2}$ in. $\times$ [   ] $=$ [   ] in.


Q12: A conference will take place in a large hotel meeting room. The organizers of the conference have created a drawing to determine how to arrange the room. The scale indicates that $\frac{1}{2}$ inch in the drawing represents 12 feet in the actual room. The scale drawing that the organizers are using is shown. The dotted line represents a folding wall. What is the actual length of the folding wall?
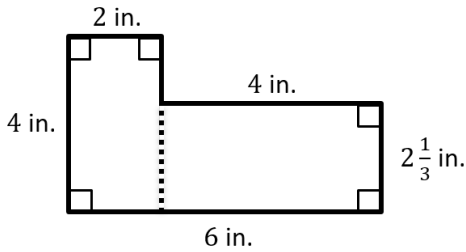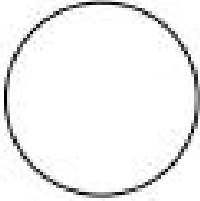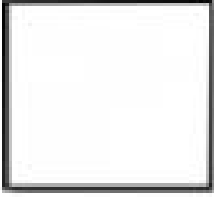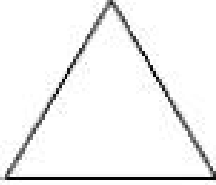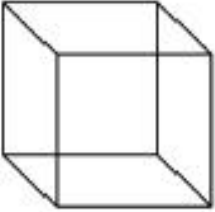

[   ] feet
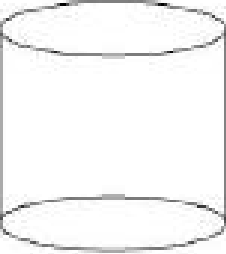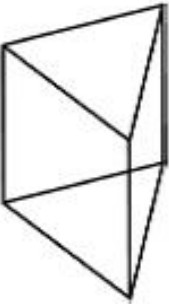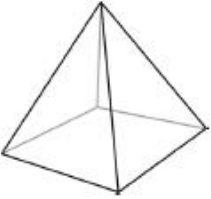
Q13: The legs of the drafting table form vertical angles. Find the measures of $\angle 1, \angle 2$ and $\angle 3$.
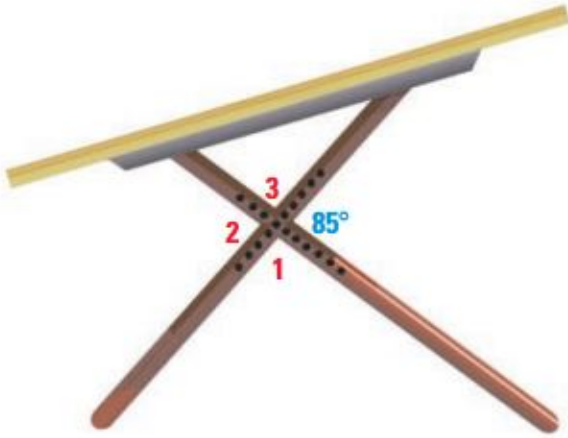
Angle	$85°$	$95°$
$\angle 1$		
$\angle 2$		
$\angle 3$		

Q14: Match each solid with the cross-section that is formed if a horizontal slice is taken of the solid.

Solid	◯	▢	△
(cone)			
(cube)			
(cylinder)			
(triangular prism)			
(pyramid)			

Q15: Use the drawing below to match the descriptions with their measurements.

Assume $\angle PXU$ lies along the baseline.
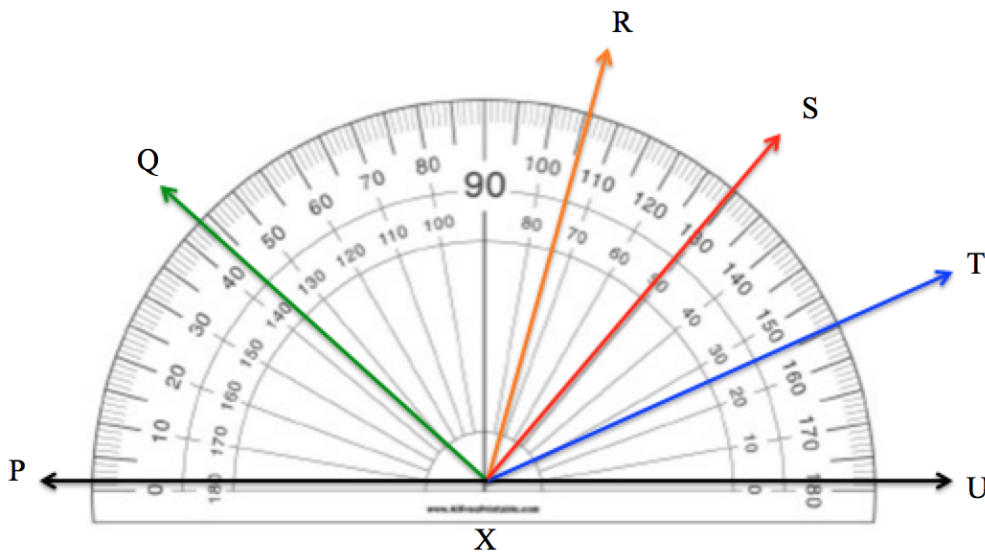
bisector angle of $\angle RXT$	$\longleftrightarrow$	
bisector angle of $\angle UXP$	$\longleftrightarrow$	
$\angle QXR$	$\longleftrightarrow$	
$\angle PXS$	$\longleftrightarrow$	
bisector angle of $\angle TXP$	$\longleftrightarrow$	
$m\angle PXQ + m\angle QXR$	$\longleftrightarrow$	
$\angle TXQ$	$\longleftrightarrow$	
$\angle TXR$	$\longleftrightarrow$	

ANSWER CHOICES

- $50°$
- $130°$
- $62°$
- $77.5°$
- $25°$
- $105°$
- $112°$
- $52.5°$
- $90°$
- $75°$

Q16: How many possible outcomes are possible if you choose from 6 ice cream flavors, 3 different sizes of scoops, 2 toppings, and a waffle cone or a cup?

A 36

B 24

C 18

D 72

Q17: A bag contains 8 red, 6 white, and 10 blue marbles.

One of these marbles is to be selected at random from the bag.

Complete the table below to create a possible probability model of the marbles in the bag.

Color	Probability
Red	
White	
Blue	

Q18: The following data represents the amount of snow snow that fell in a week.

Daily snowfall	
Day	Snowfall (inches)
Sunday	9
Monday	7
Tuesday	6
Wednesday	10
Thursday	3
Friday	4
Saturday	6

The median of the numbers is [   ] .

Q19: Part A

Tristan asked his coworkers about how much time they spent commuting each morning.

This box-and-whisker plot shows the results.

Time spent commuting each morning
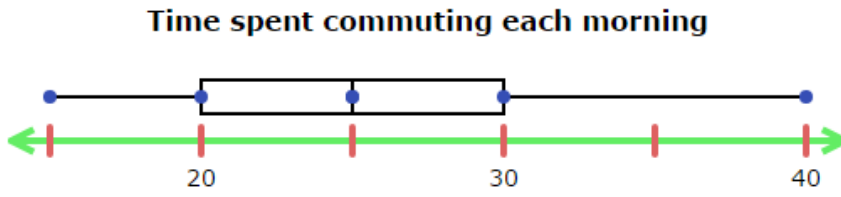
Find the median.

A 10

B 15

C 20

D 25

Part B

Find the interquartile range.

Answer: [   ]