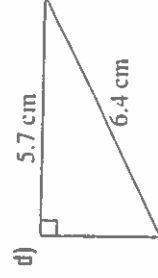
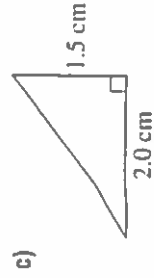
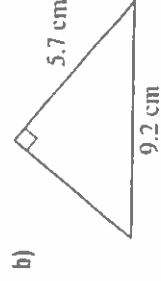
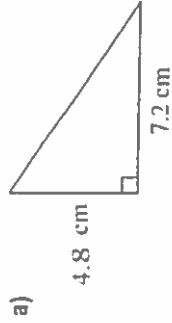


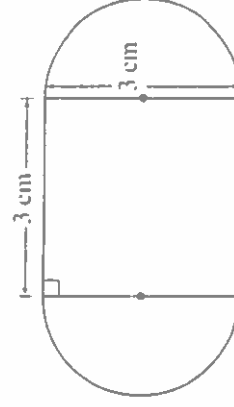
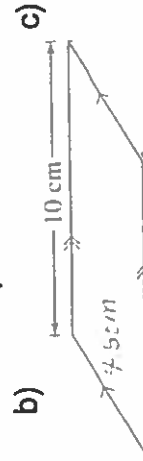
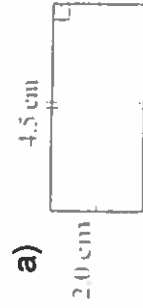
SHOW ALL STEPS!!!

- Express each as an integer:
 - a decrease of 16°C
 - an increase of 3°C
 - a drop of 50 feet
 - earning \$25
 - spending \$500
 - a rise of 30 metres
- Simplify using integer rules.
 - $5 - 3$
 - $7 - 6$
 - $2 - 11$
 - $4 + (+2)$
 - $(-2) - (-9)$
 - $(+4) - (+5) - (-3)$
 - $(-4)(-6)$
 - $(+6)(-2)$
 - $(-3)(-8)$
 - $(4)^2$
 - $(-5)^2$
 - $(-4)(-1)(+7)$
 - $(-1)^5$
 - $(+25) \div (+5)$
 - $(-49) \div (-7)$
 - $\frac{-64}{8}$
- Use BEDMAS to evaluate.
 - $12 \div 6 + 3(5)$
 - $2(5 - 6) + 5$
 - $4^2 - 4(3) + 12 \div 4$
 - $-2(-3) - 6 \div (-3)$
 - $4(5 - 3)^2$
 - $6(-10) + \frac{15}{-3}$
- Evaluate if $x = -2$ and $y = 3$.
 - $4xy$
 - $2(x - y)$
 - $(y - x)^2$

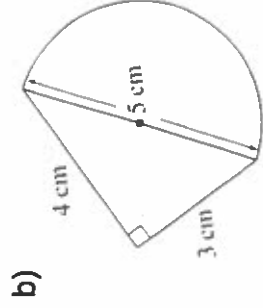
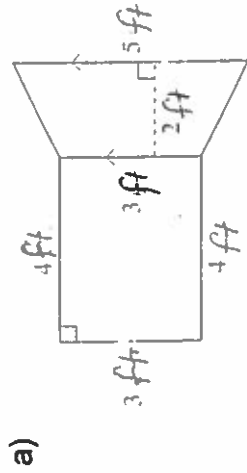
- Calculate the length of the missing side, using Pythagorean Theorem. Answer to 1 decimal place.



- Calculate the perimeter AND area of each shape. Formula. Substitution. Answer. Units!!!
Round answers to 1 decimal place.



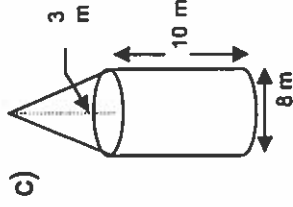
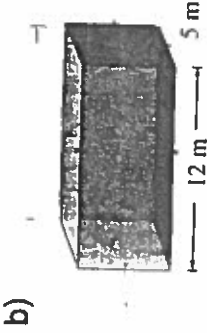
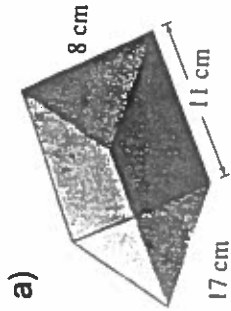
7. Calculate the area of each figure. Formula, Substitution, Answer, Units!!! Round answers to 1 decimal place.



8. If the shape in #7a was a floor that was to be tiled and the tiling costs \$2.29 per square foot, what is the cost to tile the room, including 13% tax.



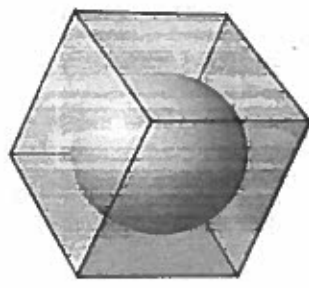
9. Calculate the volume of each shape. Round answers to 1 decimal place.



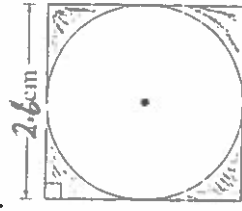
10. A sphere just fits inside a cube with the edge length 10.0 cm.

a) Calculate the volume of the sphere.

b) Calculate the volume of empty space inside the box.



11. Calculate the area of the shaded region. Round answer to one decimal place.



12. Trevor has 48 metres of fencing. Determine the length and width of the largest rectangular pen he can make.

c) Calculate the area of the pen.

13. Emma has 35 metre sticks. Determine the length and width of the rectangle that will have the maximum area.

