

Name: _____

1. Solve for the unknown (x , k , or t). Format your answers such that they are presentable.

(a) $3x + 3x = 81$

Answer: _____

(b) $1500t + 1000t - 20000 = 0$

Answer: _____

(c) $7k + 8k = 48$

Answer: _____

(d) $12x + x = 182$

Answer: _____

(e) $20000 - 1500t + 1000t = 0$

Answer: _____

(f) $6x = 8 + x$

Answer: _____

2. Five times a number is two more than 23. What is this number?

Answer: _____

3. The ratio of domestic students to international students at SFU is roughly 4 : 1. If there are 8000 students at SFU in total, how many of them are domestic? How many of them are international?

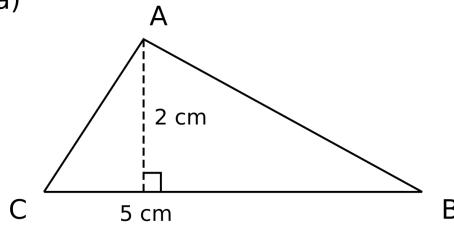
Answer: _____

4. Calvin and Chase drive from Surrey to Whisler. 1.5 hours later, they are 50 km away from Whisler. The distance between Surrey and Whisler is 153 km. What was the average speed of Calvin and Chase?

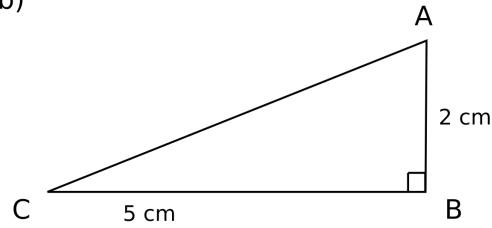
Answer: _____

5. Find the area of the triangles in the following picture.

(a)



(b)



6. Find the missing angle in $\triangle ABC$. Feel free to draw your own triangles.

(a) $\angle A = 60^\circ, \angle C = 30^\circ$

Answer: _____

(b) $\angle B = 35^\circ, \angle C = 55^\circ$

Answer: _____

(c) $\angle A = 45^\circ, \angle B = 45^\circ$

Answer: _____