Question 1

The Green-tangle neighborhood has 620 high school age students and 210 middle school age students.

What percent of those students attend a private school?

Question 2

You are in charge of scheduling math classes for 9th and 10th grade at Sue Bird High School.

How many sections of Algebra 1, Geometry and Algebra 2 should you plan for?

(I want three answers to this question, one for each class)

Question 3

There are 75 orca whales left in the Puget sound. They live in families called "pods" and Puget sound is home to the J-pod, K-pod and L-pod. Copy and complete the following table.

	J-pod	K-pod	L-pod	
Male				37
Female				
	23			

Question 4

A butterfly sanctuary has 108 Monarch butterflies and 94 Viceroy butterflies.

If you catch one butterfly, what is the percent chance that butterfly is a female Monarch?

Facts

Green-tangle neighborhood student data:

	Private	Public	
Middle		150	
High		502	

Facts

- Sue Bird high school has classes of 30 max.

- There are 55 kids who need Algebra 1
- 41 10th graders need geometry and 21 need Algebra 2. Some need Algebra 1 also.
- 42 9th graders need Algebra 1. 6 need Algebra 2.
- There are 65 9th graders.

Facts

- J-pod and K-pod have the same number of males.

- 45.33% of the whales live in L-pod.

- L-pod is the only pod with equal number of males and females.

Facts

- 110 butterflies are male.

- There are 14 more male Viceroy butterflies than male Monarch butterflies

Question 1

The Green-tangle neighborhood has 620 high school age students and 210 middle school age students.

What percent of those students attend a private school?

Green-tangle neighborhood student data:

	Private	Public	
Middle	60	150	210
High	118	502	620
	178	652	830

$$\frac{178}{830} = \boxed{21.4\%}$$

Question 2

You are in charge of scheduling math classes for 9th and 10th grade at Sue Bird High School.

How many sections of Algebra 1, Geometry and Algebra 2 should you plan for?

(I want three answers to this question, one for each class)

- Sue Bird high school has classes of 30 max.
- There are 55 kids who need Algebra 1
- 41 10th graders need geometry and 21 need Algebra 2. Some need Algebra 1 also.
- 42 9th graders need Algebra 1. 6 need Algebra 2.
- There are 65 9th graders.

	A1	Geo	A2	
9th	42	17	6	65
10th	13	41	21	75
	55	58	27	140
	×2	×2	×1	

Question 3

There are 75 orca whales left in the Puget sound. They live in families called "pods" and Puget sound is home to the J-pod, K-pod and L-pod. Copy and complete the following table.

	J-pod	K-pod	L-pod	
Male	10	10	17	37
Female	13	8	17	38
	23	18	34	75

- J-pod and K-pod have the same number of males.
- 45.33% of the whales live in L-pod.
- L-pod is the only pod with equal number of males and females.

.4533·75

Question 4

A butterfly sanctuary has 108 Monarch butterflies and 94 Viceroy butterflies.

If you catch one butterfly, what is the percent chance that butterfly is a female Monarch?

- 110 butterflies are male.
- There are 14 more male Viceroy butterflies than Monarch butterflies

$\overset{\wedge}{male}$

	Monarch	Viceroy	
m	48	62	110
F	60	32	92
	108	94	202

$m + V = 110$

$m = V + 14$

$2V + 14 = 110$

$\frac{60}{202}$

$\boxed{29.7\%}$