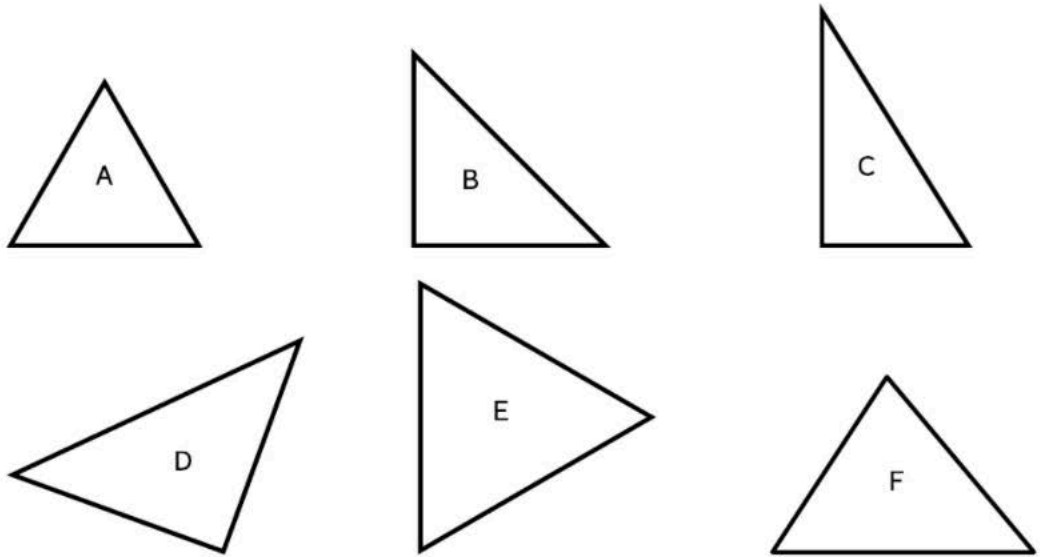


Exercise 10A Properties and Classification of Triangles

- I. Measure the side lengths of each triangle using a ruler.



- (a) Classify the triangles by side lengths.

Equilateral	Isosceles	Scalene

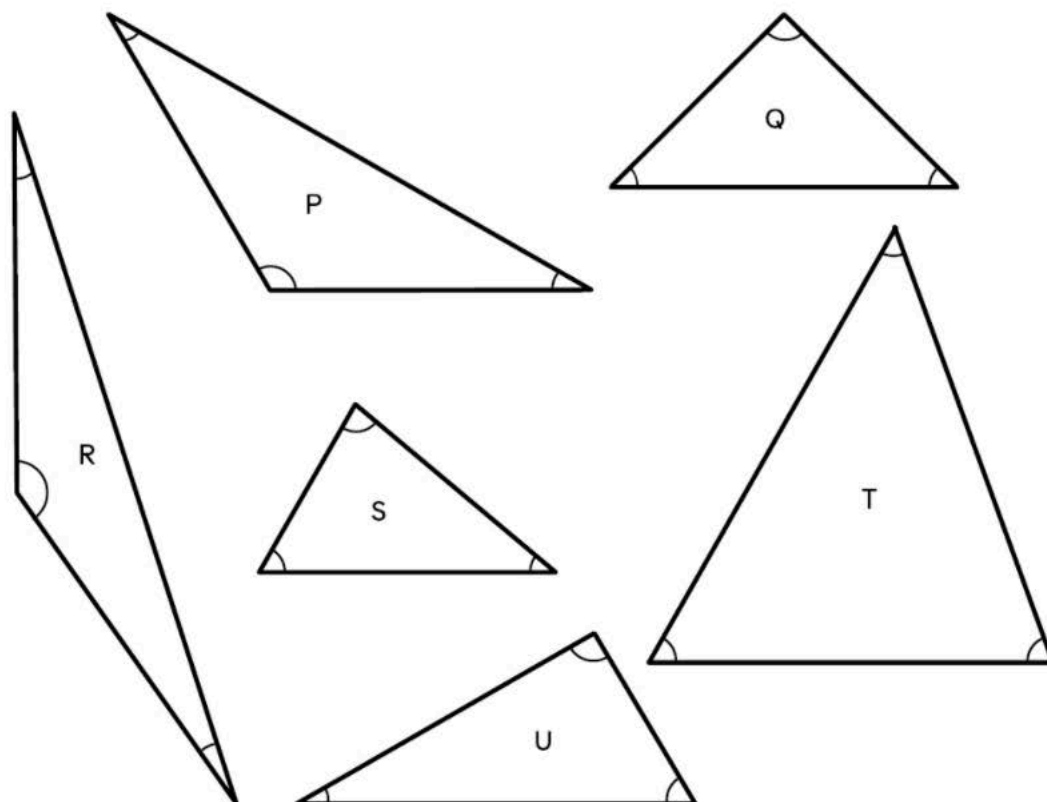
- (b) What do you notice about the sides in these triangles:

Isosceles triangle

Equilateral triangle

Scalene triangle

2. Measure the angles of each triangle using a protractor.



- (a) Classify the triangles by angles.

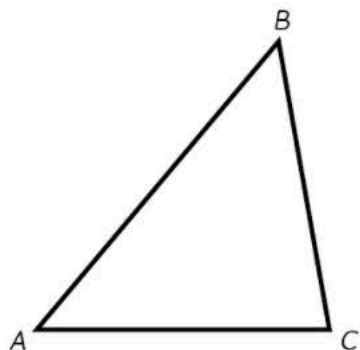
Right Triangles	Obtuse Triangles	Acute Triangles

- (b) What do you notice about the angles in these triangles:

Right triangle	
Obtuse triangle	
Acute triangle	

3. Fill in the blanks.

(a)

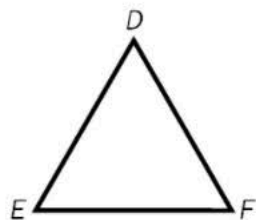


Measure of $\angle BAC = \underline{\hspace{2cm}}^\circ$

Measure of $\angle ABC = \underline{\hspace{2cm}}^\circ$

ABC is a/an $\underline{\hspace{2cm}}$ triangle.

(b)



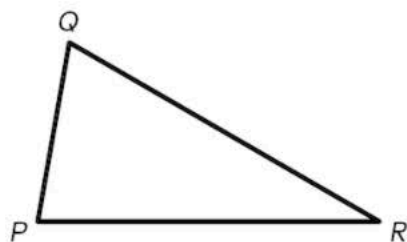
$DE = \underline{\hspace{2cm}}$ cm

$EF = \underline{\hspace{2cm}}$ cm

$DF = \underline{\hspace{2cm}}$ cm

DEF is a/an $\underline{\hspace{2cm}}$ triangle.

(c)



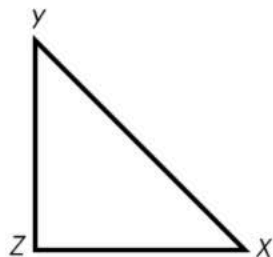
Measure of $\angle PQR = \underline{\hspace{2cm}}^\circ$

Measure of $\angle QRP = \underline{\hspace{2cm}}^\circ$

Measure of $\angle QPR = \underline{\hspace{2cm}}^\circ$

PQR is a/an $\underline{\hspace{2cm}}$ triangle.

(d)



$XZ = \underline{\hspace{2cm}}$ cm

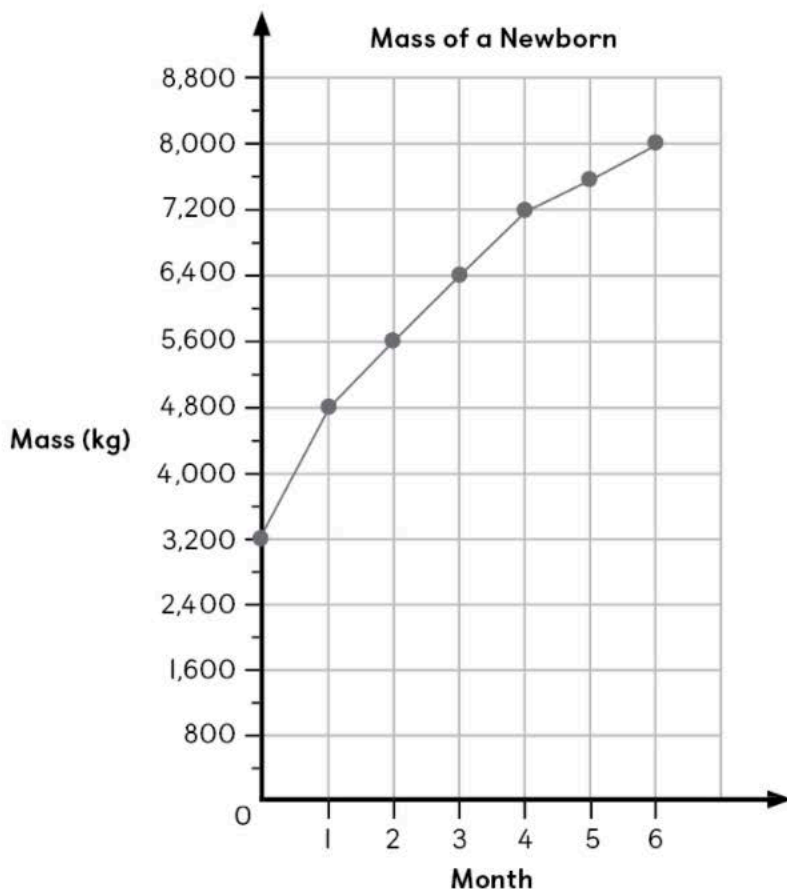
$YZ = \underline{\hspace{2cm}}$ cm

$XY = \underline{\hspace{2cm}}$ cm

XYZ is a/an $\underline{\hspace{2cm}}$ triangle.

Exercise 11C Line Graphs

- I. The line graph below shows the mass of a newborn baby in the first six months.

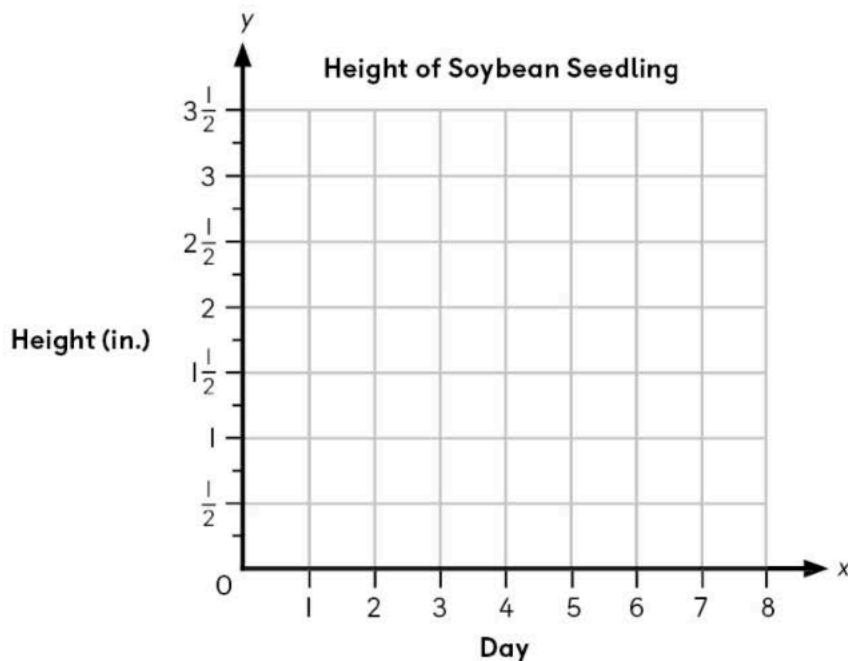


- (a) Between which two months was the increase in the mass of the newborn baby the greatest? How much was the increase?
- (b) Will the mass of the newborn baby increase or decrease after 6 months? Explain.

2. Irene recorded her observations of the growth of her soybean seedling for 8 days. The table below shows the height of her soybean seedling.

Day	1	2	3	4	5	6	7	8
Height (in.)	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{2}$	$1\frac{3}{4}$	$2\frac{1}{4}$	3	$3\frac{1}{4}$

- (a) Plot the ordered pairs to make a line graph.

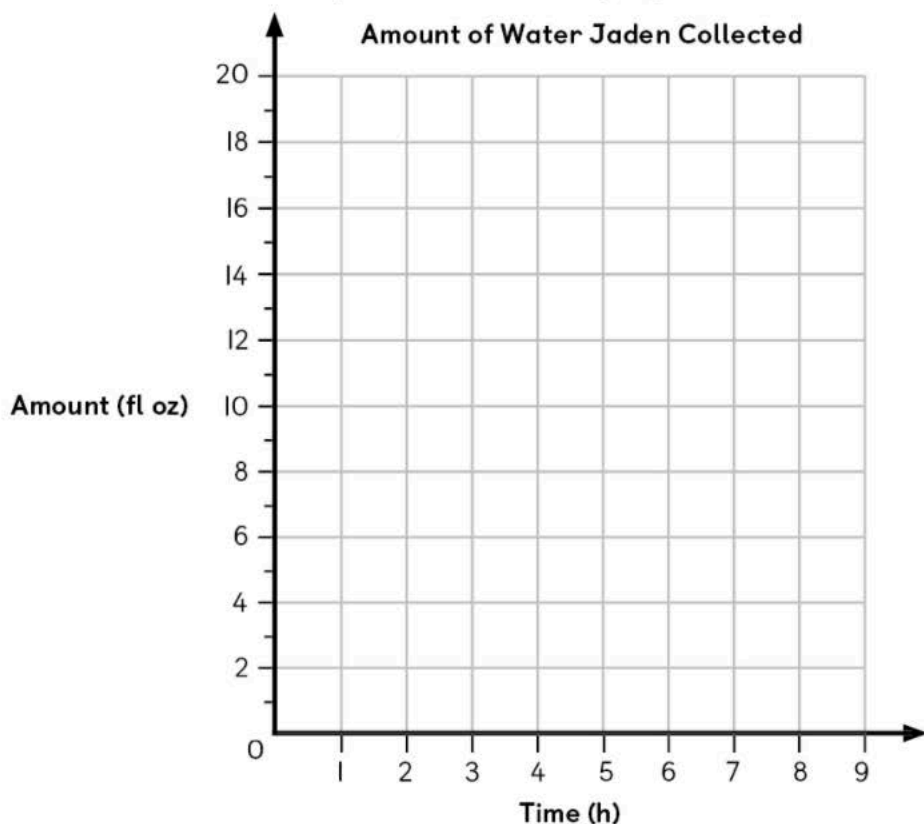


- (b) Between which two days was the increase in the height of seedling the greatest? What was the increase?
- (c) What was the increase in height over 8 days?

3. The table shows the amount of water Jaden collected from a leaking tank over a period of 6 hours.

Time (h)	0	1	2	3	4	5	6
Amount of water (fl oz)	0	2	4	6	8	10	12

- (a) Plot the ordered pairs to make line graph.



- (b) How much water was collected after $3\frac{1}{2}$ hours?
Draw to show on the graph.
- (c) The tank was repaired after 9 hours. How much water was collected in all? Draw to show on the graph.