

# Lesson 13

1 Solve the word problems:

a) A can of coke costs 9 cents. How many cans can Little Joe buy with 72 cents?

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b) A can of coke costs 9 cents. How many cans can Little Joe buy with 75 cents?

\_\_\_\_\_

c) A can of coke costs  $a$  cents. How many cans can Little Joe buy with  $b$  cents?

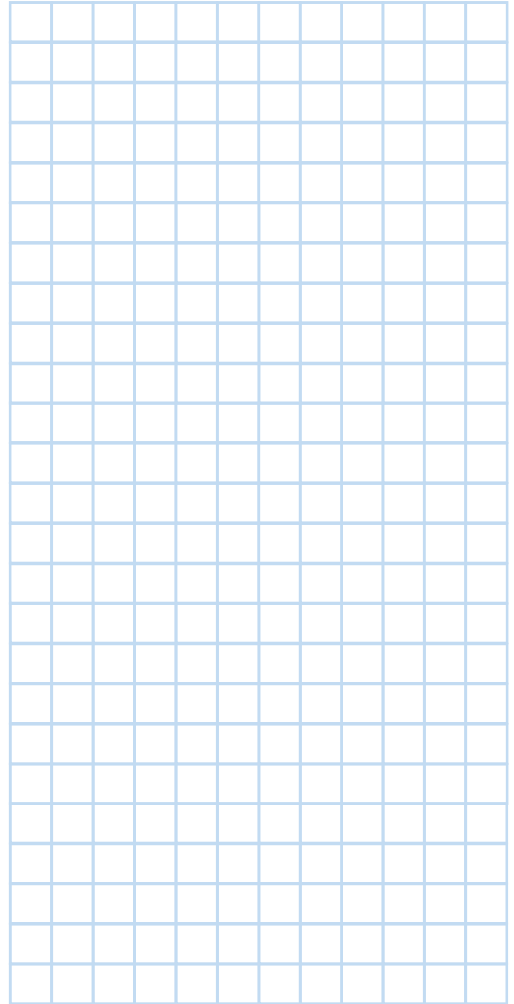
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d) A car can fit 4 passengers. How many cars are needed to drive 24 students to a conference?

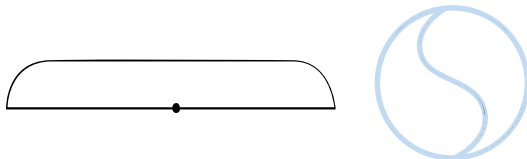
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e) A car can fit 4 passengers. How many cars are needed to drive 26 students to a conference?

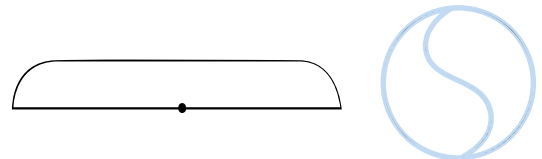
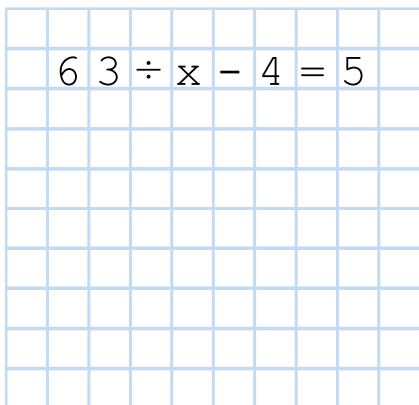
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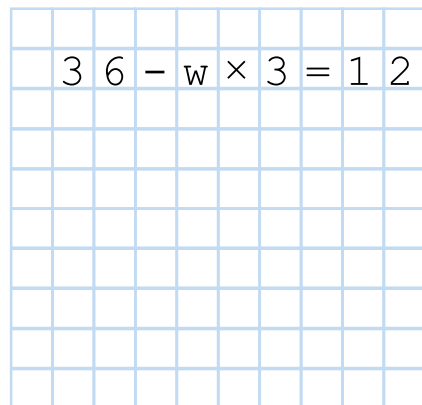
2 Solve the equations:



$$63 \div x - 4 = 5$$



$$36 - w \times 3 = 12$$



- 3 Read the word problem and explain the meanings of the results of division with remainder.

*A small bus can fit 7 students. A school needs to send 41 students to a museum.*

$$41 \div 7 = 5 \text{ rem } 6$$

7	is the number of...
$5 \times 7 = 35$	is the number of...
6	is the number of...
$5 + 1 = 6$	is the number of...
$7 - 6 = 1$	is the number of...
$(5 + 1) \times 7 = 42$	is the number of...

- 4 Foxy Tail planted cucumbers, tulips, and violets in the planters.

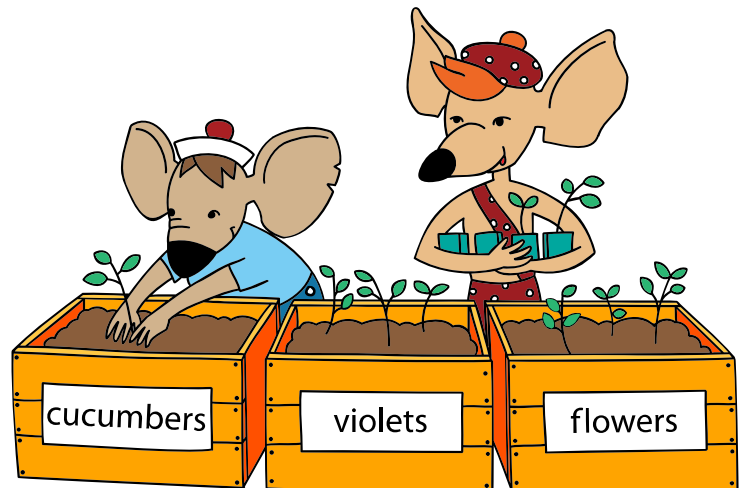
Then he labeled each box.

The labels were *Cucumbers*, *Violets* and *Flowers*.

Certainly none of the labels were correct.

What do you think was in the planter labeled Violets?

- A. Tulips
- B. Violets
- C. Cucumbers
- D. Watermelons
- E. Impossible to tell



- 5 The length of a wooden log is 5 feet. Every minute 1 foot of wood is cut off from the end. How many minutes will it take to cut the whole log?

# Long Division

1.  $\left\{ \begin{array}{c} \triangle \triangle \triangle \\ \triangle \triangle \triangle \end{array} \triangle \triangle \right\} : 3 = \triangle + \left\{ \begin{array}{c} \triangle \triangle \triangle \\ \triangle \triangle \end{array} \right\} : 3$

2.  $\left\{ \begin{array}{c} \triangle \triangle \\ \triangle \end{array} \triangle \triangle \right\} = \left\{ \begin{array}{c} \triangle \\ \triangle \triangle \triangle \triangle \end{array} \triangle \triangle \triangle \triangle \right\}$

3.  $\left\{ \begin{array}{c} \triangle \\ \triangle \triangle \triangle \\ \triangle \triangle \triangle \triangle \end{array} \triangle \triangle \triangle \right\} : 3 = \begin{array}{c} \triangle \\ \triangle \triangle \triangle \\ \triangle \end{array} + \left\{ \begin{array}{c} \triangle \\ \triangle \end{array} \right\} : 3$

4.  $\left\{ \begin{array}{c} \triangle \\ \triangle \end{array} \right\} = \left\{ \begin{array}{c} \cdot \cdot \cdot \\ \cdot \cdot \cdot \end{array} \right\}$       5.  $\left\{ \begin{array}{c} \cdot \cdot \cdot \\ \cdot \cdot \cdot \end{array} \right\} : 3 = \cdot \cdot \cdot$

	h	t	u
	1	7	7
3	5	3	1
	3	h	
	2	3	t
	2	1	t
		2	1
			u
			u
			0

	h	t	u
	0	7	7
3	2	3	1
	0	h	
	2	3	t
	2	1	t
		2	1
			u
			u
			0

6 Divide:

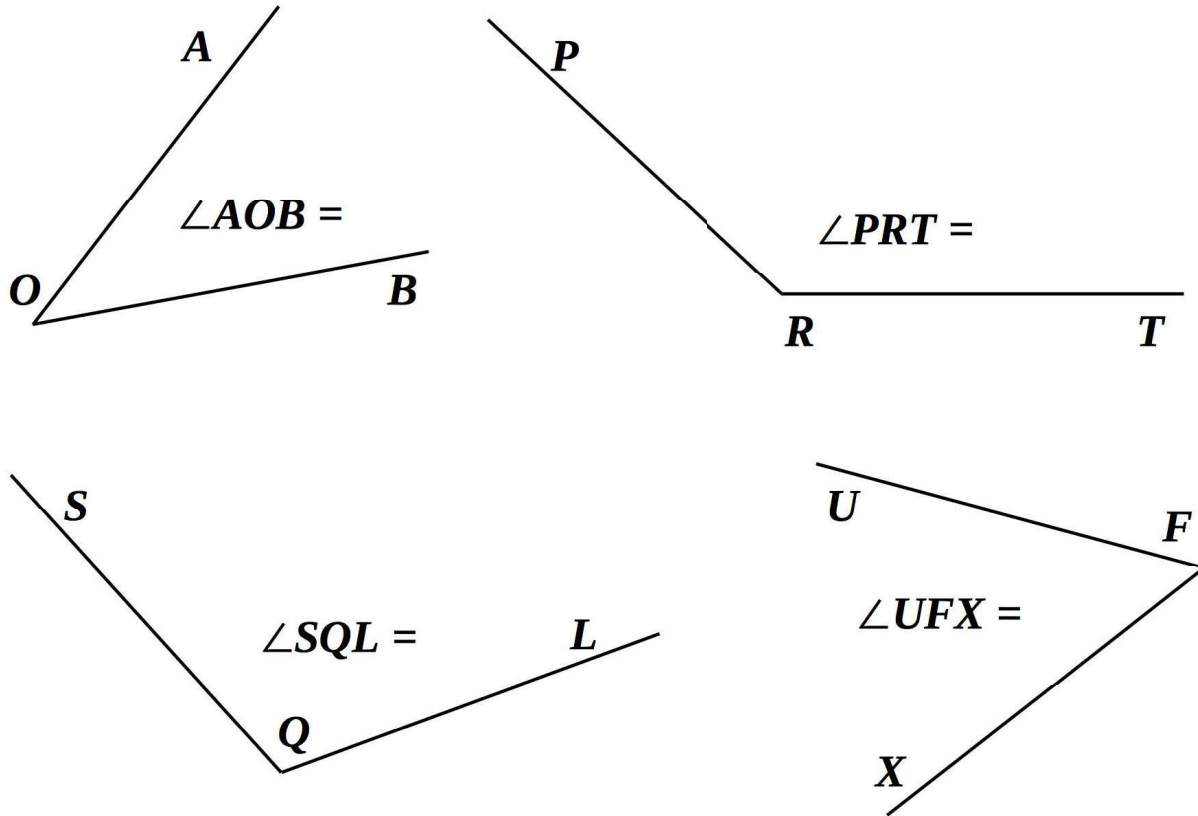
	h	t	u	
7	4	4	8	

	h	t	u	
6	7	0	8	

	h	t	u	
3	5	4	6	

1. Divide full 100's
2. Combine remaining 100's with 10's
3. Divide combined full 10's
4. Combine remaining 10's with 1's
5. Divide combined 1's

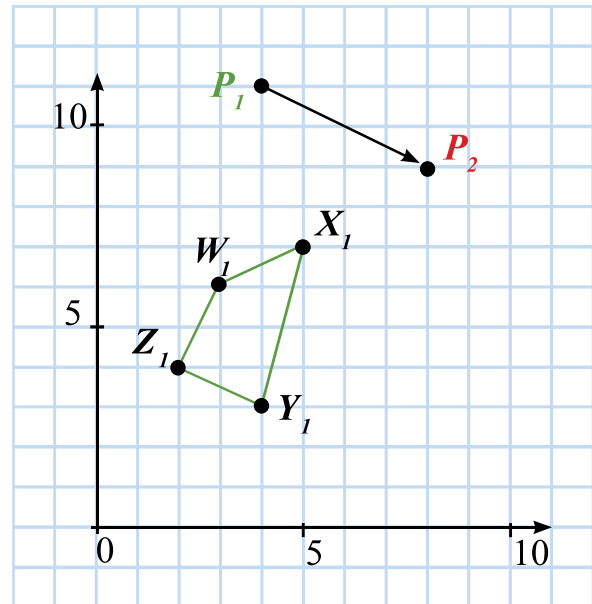
8 Measure the angles with a protractor:



7 Point  $P_1$  moves according to a certain rule to produce point  $P_2$ . Analyze the rule and move the quadrilateral  $W_1X_1Y_1Z_1$  according to this rule.

$P_1(4, 11) \rightarrow P_2( \quad , \quad )$  Rule: \_\_\_\_\_

$W_1(3, 6)$	$X_1(5, 7)$
↓   ↓	
$W_2( \quad , \quad )$	$X_2( \quad , \quad )$
$Y_1( \quad , \quad ) \rightarrow$	$Y_2( \quad , \quad )$
$Z_1( \quad , \quad ) \rightarrow$	$Z_2( \quad , \quad )$



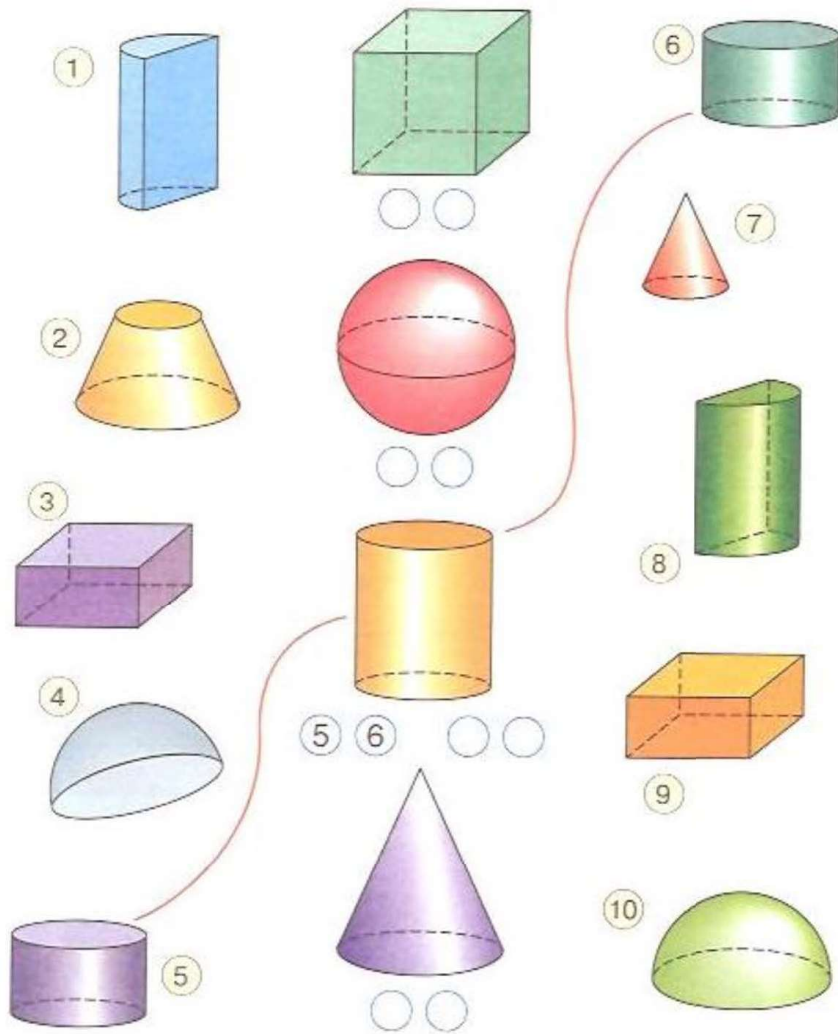
9 Kathy was walking to Stony Brook. On her way she met 3 men walking in the opposite direction. Each man had a bag. There were 3 cats in each bag. How many living beings were traveling to Stony Brook?

**10** Look at the shapes in the middle section.

Which parts from the left and the right sides can you use to make each shape?

Write their numbers inside the circles under the whole shape.

Draw lines connecting each whole shape and its parts.



**11** Look at the first three of the so called “triangle” numbers. Make the next two numbers:

