

**WARM-UP**

**1.**

Replace shapes with numbers to get a correct equality in each case.

$$\text{Hexagon} \triangle + \triangle \text{Hexagon} = 77$$

$$\triangle \triangle + \text{Hexagon} \text{Hexagon} = 77$$

$$\square \bigcirc + \bigcirc \square = 77$$

$$\bigcirc \bigcirc + \square \square = 77$$

$$\text{Pentagon} \text{Rectangle} + \text{Rectangle} \text{Pentagon} = 77$$

$$\text{Rectangle} \text{Rectangle} + \text{Pentagon} \text{Pentagon} = 77$$

1.  $34 + 43 = 77$

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

**2.**

a) One penny out of three is fake. It is lighter than the others. How can you identify the fake coin by using a balance scale like the one shown in the picture? You can only weigh once!



## REVIEW

(AB) – Straight line through points A and B;

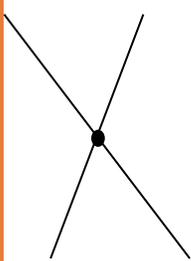
[AB) – Ray AB with end point A passing through B

[AB] – segment of the line with end points A and B

(AB) // (CD) – lines AB and CD are parallel

3.

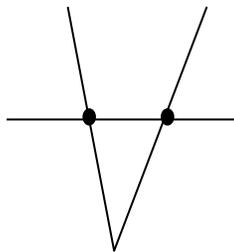
a) How many straight lines, rays, and line segments can you find in each figure.




- Straight lines

- Rays

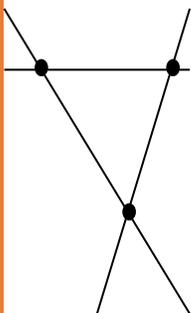
- Line segments




- Straight lines

- Rays

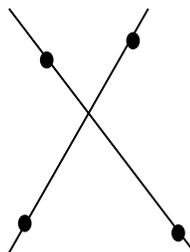
- Line segments




- Straight lines

- Rays

- Line segments

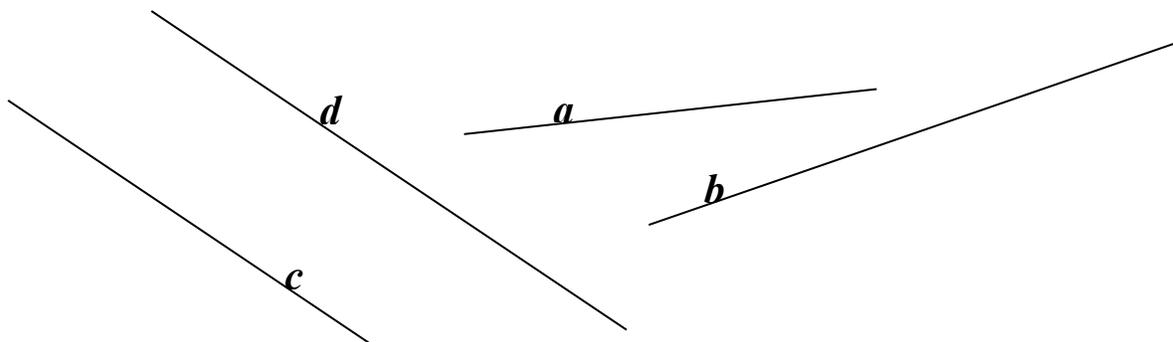



- Straight lines

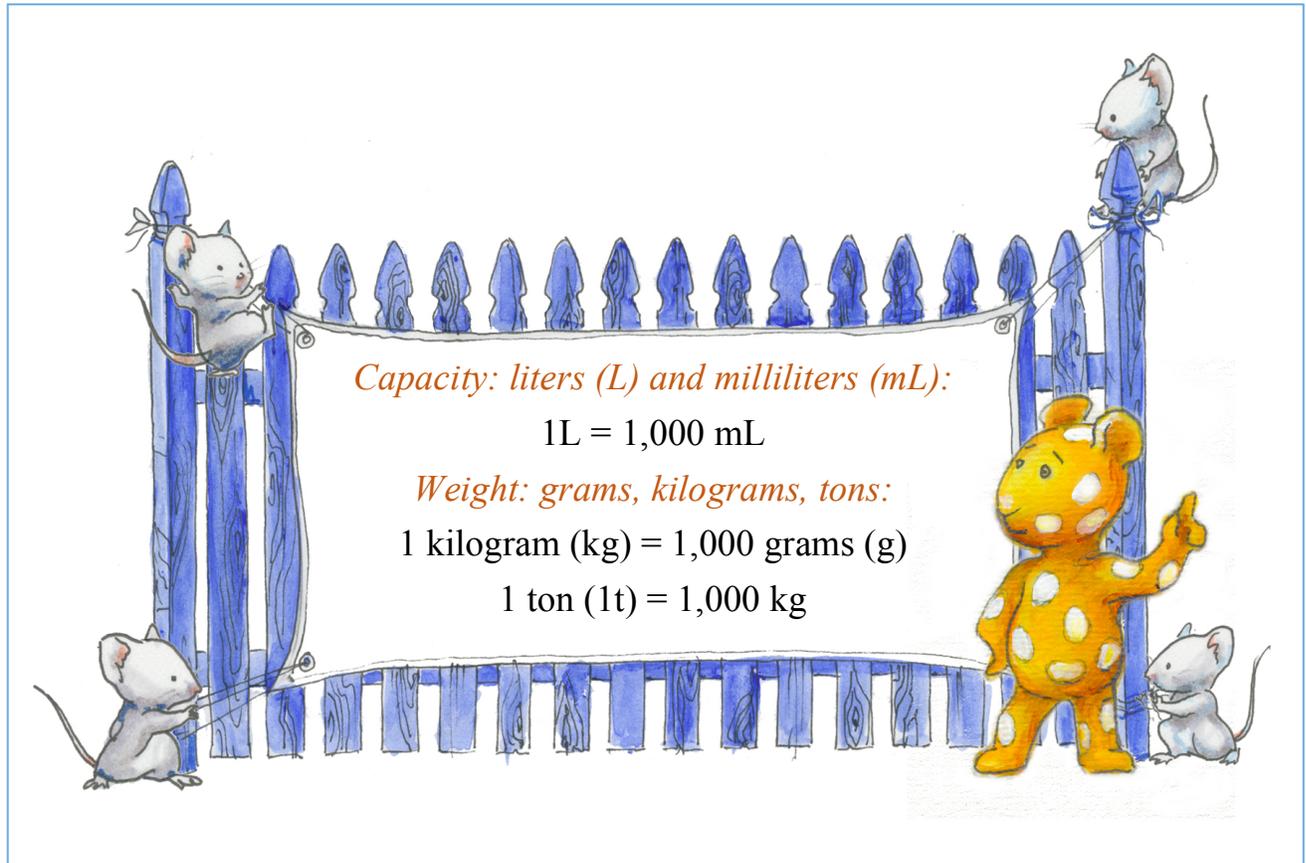
- Rays

- Line segments

b) Using a ruler, extend lines *a* and *b*. Find their intersection points with other lines and label them by any letters you choose. Which lines are parallel to each other?



## NEW MATERIAL



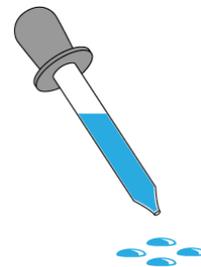
This bottle holds 1 liter of water.



A paperclip weighs about 1g.



A milliliter is about 20 drops of water.



A big textbook weighs about 1kg





5.

Calculate. What problem should be in the last column?

$$\begin{array}{r} \overset{10}{\bullet} \\ 30 \\ - 21 \\ \hline \phantom{0}9 \end{array}$$

$$\begin{array}{r} 40 \\ - 22 \\ \hline \phantom{0} \end{array}$$

$$\begin{array}{r} 50 \\ - 23 \\ \hline \phantom{0} \end{array}$$

$$\begin{array}{r} 60 \\ - 24 \\ \hline \phantom{0} \end{array}$$

$$\begin{array}{r} 70 \\ - 25 \\ \hline \phantom{0} \end{array}$$

$$\begin{array}{r} 80 \\ - 26 \\ \hline \phantom{0} \end{array}$$

$$\begin{array}{r} \phantom{0} \\ \phantom{0} \\ \hline \phantom{0} \end{array}$$

6.

Calculate. What problem should be in the last column?

$$\begin{array}{r} \phantom{0}1 \\ 48 \\ + 23 \\ \hline \phantom{0} \end{array}$$

$$\begin{array}{r} 48 \\ + 24 \\ \hline \phantom{0} \end{array}$$

$$\begin{array}{r} 48 \\ + 25 \\ \hline \phantom{0} \end{array}$$

$$\begin{array}{r} 48 \\ + 26 \\ \hline \phantom{0} \end{array}$$

$$\begin{array}{r} 48 \\ + 27 \\ \hline \phantom{0} \end{array}$$

$$\begin{array}{r} 48 \\ + 28 \\ \hline \phantom{0} \end{array}$$

$$\begin{array}{r} \phantom{0} \\ \phantom{0} \\ \hline \phantom{0} \end{array}$$

7.

Calculate numbers in columns first. Use them to calculate all other problems in your head.

$\begin{array}{r} 325 \\ + 289 \\ \hline \phantom{0} \end{array}$	$326 + 289 =$	$326 + 288 =$
	$325 + 290 =$	$425 + 289 =$
$\begin{array}{r} 800 \\ - 526 \\ \hline \phantom{0} \end{array}$	$801 - 526 =$	$801 - 527 =$
	$800 - 527 =$	$900 - 527 =$

8.

Compare using  $>$ ,  $<$ , or  $=$ .

$23 \text{ cm} \square 5 \text{ cm}$

$68 \text{ cm} \square 6 \text{ dm and } 8 \text{ cm}$

$3 \text{ dm} \square 36 \text{ cm}$

$18 \text{ m} \square 37 \text{ m}$

$51 \text{ dm} \square 57 \text{ dm}$

$7 \text{ m} \square 70 \text{ dm}$

$500 \text{ mL} \square 1 \text{ L}$

$9 \text{ L} \square 950 \text{ mL}$

$3 \text{ L} \square 350 \text{ mL}$

9.

Name each object and explain what it measures.



Challenge yourself

10.

A giraffe, a crocodile, and a hippo have their own houses. The giraffe does not live neither in the green house, nor in the blue house. The crocodile does not live neither in the green house, nor in the yellow house. Find the house where each animal lives? Match the animals with their homes.

