

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. _____

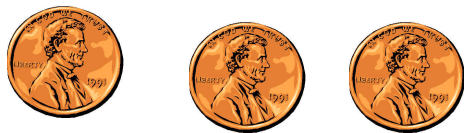
4. _____

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;

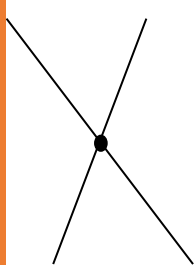
[AB) – Ray AB with end point A passing through B

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

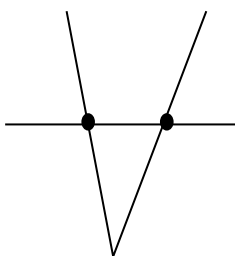
(AB) // (CD) – lines AB and CD are parallel

3.

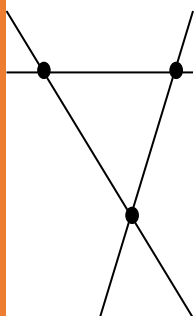
a) How many straight lines, rays, and line segments can you find in each figure.



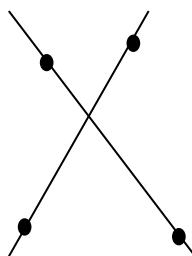
- Straight lines
 - Rays
 - Line segments



- Straight lines
 - Rays
 - Line segments

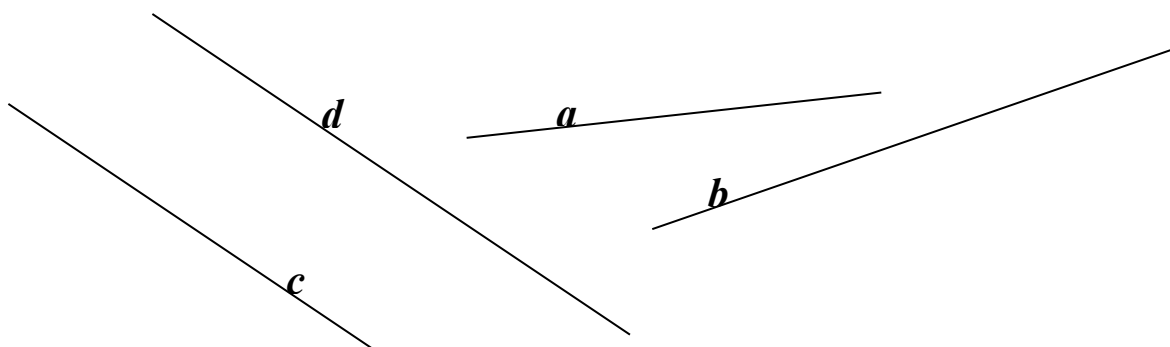


- Straight lines
 - Rays
 - Line segments

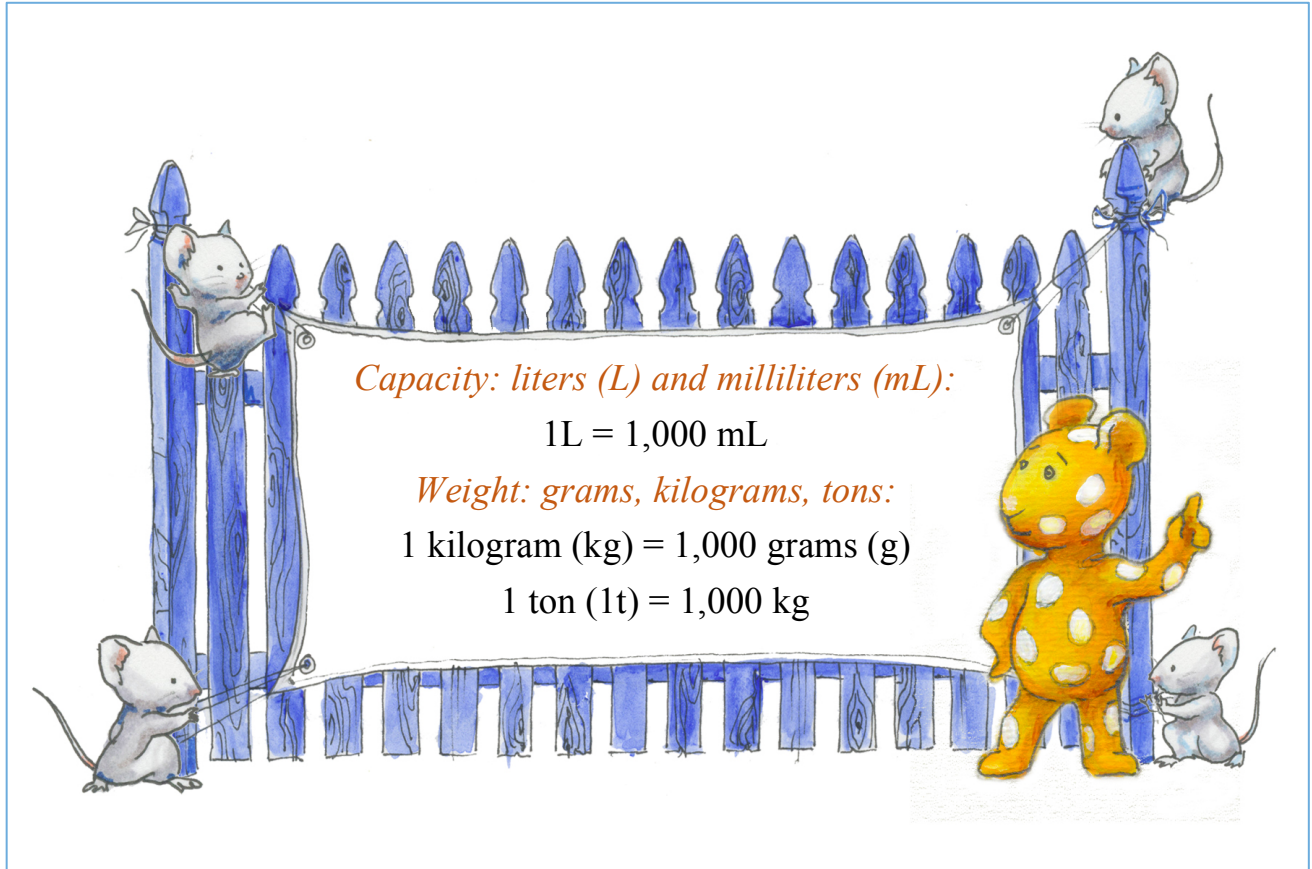


- Straight lines
 - Rays
 - Line segments

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



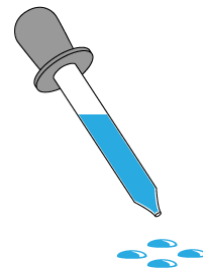
This bottle holds 1 liter of water.



A paperclip weighs about 1g.



A milliliter is about 20 drops of water.



A big textbook weighs about 1kg



A small car weighs about 1 ton.



4.

Read questions and circle the correct answer:

a) Mr. Franklin filled a bucket with water to clean the floor. Does his bucket probably hold 9 liters or 9 milliliters of water?

b) A baker adds half of a teaspoon of vanilla to her cake recipe. Did she use 2.5 L or 2.5 mL of vanilla?

c) Chris bought a cup of hot chocolate. Does his cup probably hold 400 liters or 400 milliliters of hot chocolate?

d) Which of the following should be measured in liters? Circle your answers.
Bathtub, toothpaste, fish tank, cereal, swimming pool, shampoo, yogurt, cookies.

Addition with regrouping; Subtraction with regrouping (borrowing)

$\begin{array}{r} 19 \\ + 1 \\ \hline 20 \end{array}$	$\begin{array}{r} 19 \\ + 2 \\ \hline \end{array}$	$\begin{array}{r} 19 \\ + 3 \\ \hline \end{array}$	$\begin{array}{r} 19 \\ + 4 \\ \hline \end{array}$	$\begin{array}{r} 19 \\ + 5 \\ \hline \end{array}$	$\begin{array}{r} 19 \\ + 6 \\ \hline \end{array}$	$\begin{array}{r} 20 \\ - 1 \\ \hline \end{array}$
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$\begin{array}{r} 30 \\ - 1 \\ \hline 29 \end{array}$	$\begin{array}{r} 30 \\ - 2 \\ \hline \end{array}$	$\begin{array}{r} 30 \\ - 3 \\ \hline \end{array}$	$\begin{array}{r} 33 \\ - 6 \\ \hline \end{array}$	$\begin{array}{r} 33 \\ - 7 \\ \hline \end{array}$	$\begin{array}{r} 36 \\ - 8 \\ \hline \end{array}$	$\begin{array}{r} 36 \\ - 9 \\ \hline \end{array}$
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5.

Calculate. What problem should be in the last column?

$\begin{array}{r} \overset{10}{\bullet} \\ 30 \\ - 21 \\ \hline 9 \end{array}$	$\begin{array}{r} 40 \\ - 22 \\ \hline \end{array}$	$\begin{array}{r} 50 \\ - 23 \\ \hline \end{array}$	$\begin{array}{r} 60 \\ - 24 \\ \hline \end{array}$	$\begin{array}{r} 70 \\ - 25 \\ \hline \end{array}$	$\begin{array}{r} 80 \\ - 26 \\ \hline \end{array}$	$\begin{array}{r} \\ \\ \hline \end{array}$
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6.

Calculate. What problem should be in the last column?

$\begin{array}{r} 1 \\ 48 \\ + 23 \\ \hline \end{array}$	$\begin{array}{r} 48 \\ + 24 \\ \hline \end{array}$	$\begin{array}{r} 48 \\ + 25 \\ \hline \end{array}$	$\begin{array}{r} 48 \\ + 26 \\ \hline \end{array}$	$\begin{array}{r} 48 \\ + 27 \\ \hline \end{array}$	$\begin{array}{r} 48 \\ + 28 \\ \hline \end{array}$	$\begin{array}{r} \\ \\ \hline \end{array}$
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7.

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

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

8.

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

$23 \text{ cm} \quad \square \quad 5 \text{ cm} \qquad 68 \text{ cm} \quad \square \quad 6 \text{ dm and } 8 \text{ cm} \qquad 3 \text{ dm} \quad \square \quad 36 \text{ cm}$

$18 \text{ m} \quad \square \quad 37 \text{ m} \qquad 51 \text{ dm} \quad \square \quad 57 \text{ dm} \qquad 7 \text{ m} \quad \square \quad 70 \text{ dm}$

$500 \text{ mL} \quad \square \quad 1 \text{ L} \qquad 9 \text{ L} \quad \square \quad 950 \text{ mL} \qquad 3 \text{ L} \quad \square \quad 350 \text{ mL}$

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.

