WARM UP

1

Calculate:																
		6	0	7			3	0	5			7	0	4		
	-	1	0	8		-		7	7		-		2	9		
		1	0	8			3	2	9			4	8	9		
	+	1	1	9		+	2	0	3		+		1	4		

Solve equations and check your answers:

2

a)
$$14 + x = 26$$

b)
$$x - 18 = 33$$

c)
$$89 - a = 71$$

Mental math. 3

$$24 + 56 =$$
 $100 - 80 =$ $43 - 13 =$ $35 + 15 =$

$$35 + 15 =$$

$$10 + 95 =$$

$$60 + 60 =$$

$$60 + 60 = 51 - 22 =$$

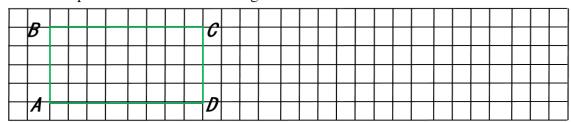
$$28 - 14 =$$

Homework Review

Find the perimeter of the rectangle ABCD plotted on the drawing. Express the perimeter P (sum of lengths of all sides) in units of length.

Draw another rectangle KLMN next to the ABCD such as:

length of side KL is one unit longer then AB and length of side LM two units bigger than BC. What is the perimeter of the new rectangle KLMN?



Length of side \overline{AB} = 4 units Length of side $\overline{BC} = 8$ units

 \overline{KL} =_____

 $\overline{LM} =$

$$P = \underline{\hspace{1cm}}$$

New Material I

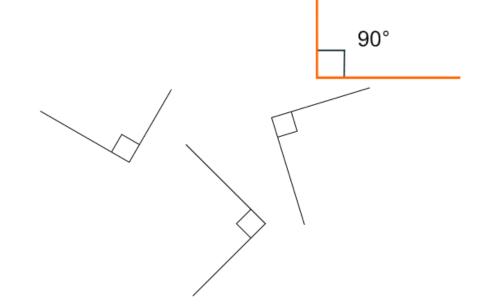
4

Making a Right Angle Template.

Fold a sheet of paper in half and then in half again. Using a ruler trace the creases with a pencil. How many straight lines did you get? How many angles do these lines form?

Note the special symbol in the angle. If we see this box, it is a right angle. The 90° is rarely written in.

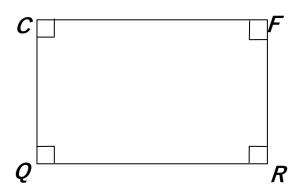
All the angles below are right angles. Use your right angle template to check it.



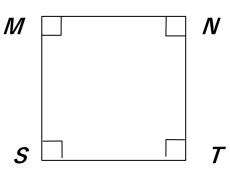
5

Find examples of right angles in your room.

a) Write a name of the rectangle Using a ruler measure sides CF and QR Using a ruler measure sides CQ and FR What did you notice?



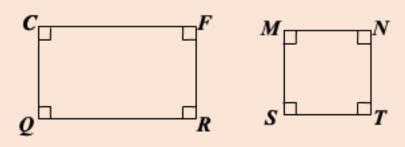
b) Write a name of the square _____ Using a ruler measure sides MN and ST _____ Using a ruler measure sides SM and NT What did you notice?

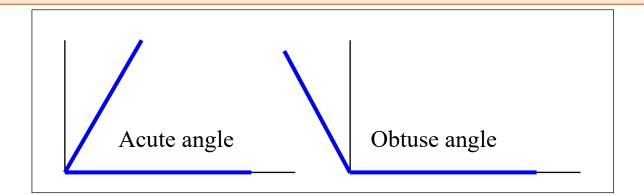


Special quadrilaterals:

Rectangle: a quadrilateral in which all four angles are right angles.

Square: a quadrilateral in which all 4 angles are right angles, and all 4 sides are of equal length.





Types of angles:

An acute angle is an angle that is smaller than a right angle.

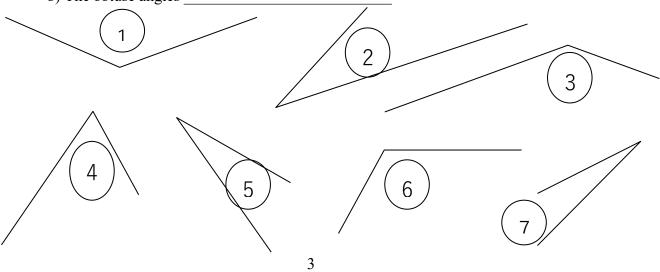
An **obtuse angle** is an angle that is larger than a right angle.

Use a right angle template to find all acute angles and all obtuse angles. List them:

a) The acute angles __

7

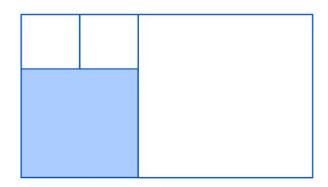
b) The obtuse angles _____



8

Quadrilateral is divided in squares. Find a perimeter of a quadrilateral if one side of the shaded square is 8 cm.

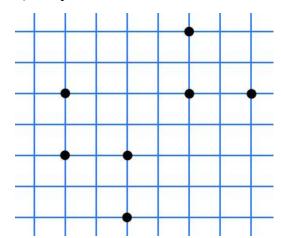
P = ____

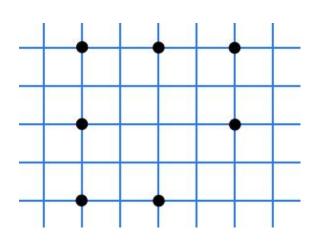


9

Connect exactly four points on the pictures below to make

- a) a rectangle
- b) a square





REVIEW

10

Compare if possible, using >, <, or =. Cross out everything what cannot be compared. Explain.

$$51 dm \square 57 dm$$

$$7 m \square 8 kg$$

11

Compare expressions using >, <, or =:

$$a \square a + c$$

$$a+b \square b+a$$

$$a+b \square b+a \qquad 38-b \square 68-b$$

$$b \square b-5$$

$$k + 26 \Box 62 + k$$

$$a-0$$
 \square $a+0$

$$4 \quad \Box \quad d-d$$

$$54 + n \square 54 - n \qquad c - 19 \square c - 90$$

$$c-19 \quad \Box \quad c-90$$

Lesson 10

12

Parallel and perpendicular lines. Quadrilaterals. Angles.

Check if the equality 12 - 8 = 3 + 1 still holds if

- a) We add 7 to the left part and 4 to the right part
- b) We add 10 to both parts _____
- c) We add 5 to the right part _____

Check if equality 15 - 4 = 5 + 6 still holds if

- a) We subtract 5 from the right side _____
- b) We subtract 6 from both sides _____
- c) We subtract 1 from the left side and add 1 to the right side
- Write down the following expressions:

The sum of *m* and *n*

The difference between 34 and x

The difference between 200 and 48

Challenge yourself

- There are apples on three plates: 1 apple on the 1st plate, 3 apples on the 2nd plate, and 8 apples on the 3rd plate. Move apples from plate to plate to make the number of apples on each plate the same. Follow the rules:
 - In one move, you can take any number of apples from one plate and move them to the other plate.
 - The number of apples you can add to any plate should be equal to the number of apples that are already there. In other words, you can only double the number of apples that are already on the receiving plate.
 - The total number of moves is unlimited.





