



**This is your first do it all by yourself and time yourself while doing it page!**

Time start: \_\_\_\_\_

Time finished: \_\_\_\_\_

**1**

Calculate:

a)  $999 + 1 =$                        $199 + 1 =$                        $79 + 1 =$                        $629 + 1 =$   
 $1000 - 1 =$                        $810 - 1 =$                        $500 - 1 =$                        $1991 - 1 =$

b)  $2000 + 400 + 30 + 1 =$  \_\_\_\_\_                       $7000 + 20 + 7 =$  \_\_\_\_\_  
 $9000 + 30 + 3 =$  \_\_\_\_\_                       $1000 + 700 + 20 + 6 =$  \_\_\_\_\_

c) Calculate the fastest way (rewrite the expression to show your way of calculation):

$(303 + 274) + 26 =$  \_\_\_\_\_                       $81 + (9 + 27) =$  \_\_\_\_\_  
 $(437 + 92) - 37 =$  \_\_\_\_\_                       $(364 + 415) - 264 =$  \_\_\_\_\_

d) Increase the numbers in 10 times: 60, 600, 15, 150, 435

\_\_\_\_\_

**2**

a) Determine order of operations and calculate:

$800 - 420 - 120 + 40 =$  \_\_\_\_\_                       $800 - (420 - 120) + 40 =$  \_\_\_\_\_  
 $800 - 420 - (120 + 40) =$  \_\_\_\_\_                       $800 - 120 + 8 \times 20 =$  \_\_\_\_\_

b) Insert parentheses to make the equations correct:

$32 - 2 \times 6 + 3 = 183$                        $32 - 2 \times 6 + 3 = 17$   
 $32 - 2 \times 6 + 3 = 23$                        $32 - 2 \times 6 + 3 = 270$

**3**

a) Put all weights in order from the heaviest to the lightest:

2 kg, 1kg 900g, 250g, 25kg, 2,500g, 2kg 50g

b) Put all lengths in order from the smallest to largest:

3m 3dm, 30dm, 333cm, 3dm 3cm, 303cm

**Report the time you spent:** \_\_\_\_\_



HW 14 Constructing a middle of the segment. Supplementary and Adjacent angles

4

Let's count angles.

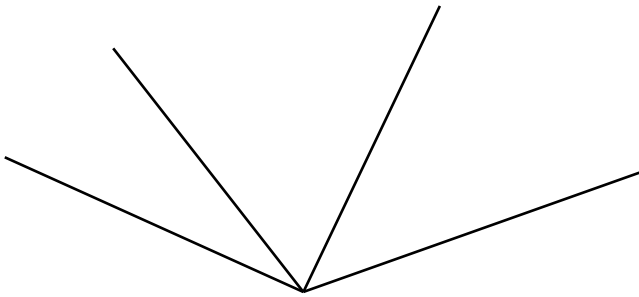
How many angles are on the sketch below? Name all angles using capital letters and

list all angles here: \_\_\_\_\_

list only obtuse angles here: \_\_\_\_\_

list only acute angles here: \_\_\_\_\_

If you are not sure, use the right angle template to confirm your answer:



5.

What types of angles are formed by the hour hand and the minute hand on the clock face at the following times (right, obtuse, acute, straight) ?

a) 3 o'clock - angle \_\_\_\_\_

b) 4 o'clock - angle \_\_\_\_\_

c) half past 9 - angle \_\_\_\_\_

11 o'clock - angle \_\_\_\_\_

6.

Using the squared piece of paper below, draw a rectangle with a length of 8 square segments and the width of 6 square segments.

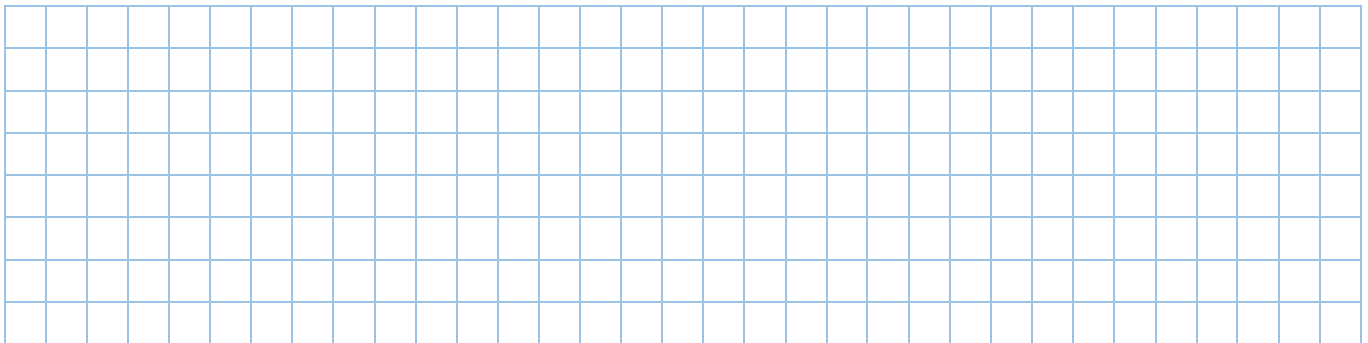
Find the perimeter of the rectangle you draw.  $P =$  \_\_\_\_\_

With one straight line, divide the rectangle into two identical rectangles.

Find the perimeter of each smaller rectangle.

Consider two different cases.  $P_1 =$  \_\_\_\_\_

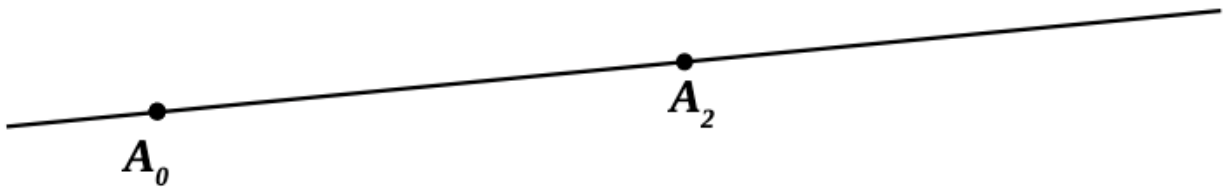
$P_2 =$  \_\_\_\_\_



HW 14 Constructing a middle of the segment. Supplementary and Adjacent angles

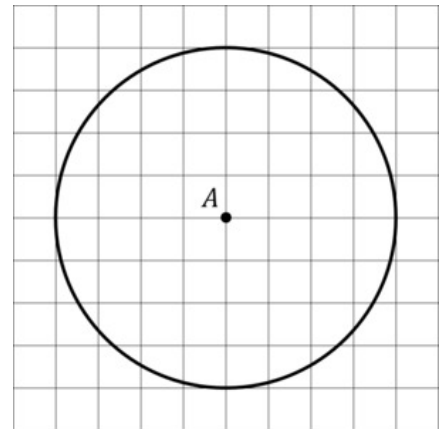
7

There are two points  $A_0$  and  $A_1$  on the line. Using only a compass and a straightedge (no ruler! Don't measure the distance between two points), find a middle of the line segment  $A_0 A_1$  and label it as a point **B**.



8

A circle with center  $A$  is drawn on 1cm grid paper as shown below. What is the radius of the circle?  
Draw another circle with a radius 2 times less than the radius of the circle on the picture.



9

*Reminder: Adjacent angles share a side and a vertex.  
Complementary angles have measures that add up to 90 degrees.  
Supplementary angles have measures that add up to 180<sup>0</sup> degrees.*

a) Find the pairs of supplementary angles and circle these pairs:

$15^0$  and  $165^0$

$30^0$  and  $155^0$

$45^0$  and  $125^0$

b) Find the pairs of complementary angles and circle these pairs:

$15^0$  and  $75^0$

$25^0$  and  $65^0$

$20^0$  and  $60^0$

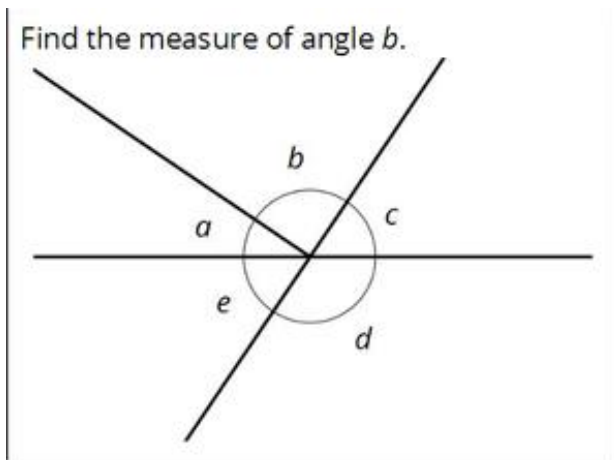
HW 14 Constructing a middle of the segment. Supplementary and Adjacent angles

10

We know that:

- Angles  $a$  and  $c$  are complementary angles
- The measure of angle  $d = 124^\circ$
- The measure of angle  $c = 56^\circ$
- Angles  $c$  and  $e$  have equal measures.

Find: The measure of angle  $b$ .



Angle  $b =$

11

Number Writing Practice