1
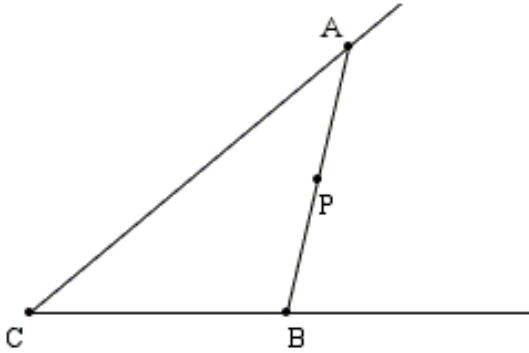
Interior and Exterior of an Angle.

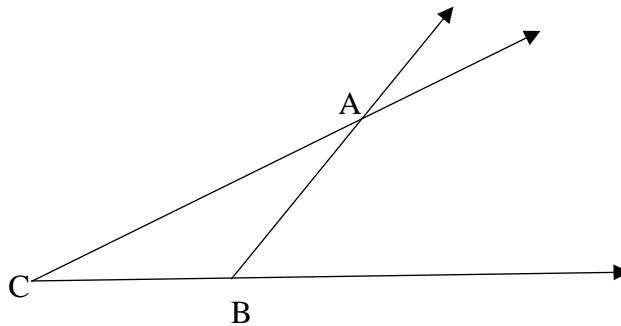Does point P belong to an ∠ ACB? _____   Does a segment $\overline{AB}$ belong to an ∠ ACB? _____

2

Do all points of a ray $\overrightarrow{BA}$ belong to the ∠ ACB? _____

a) Take a blue pencil and follow the part of the ray $\overrightarrow{BA}$ which is inside the angle ∠ ACB

b)Take a green pencil and follow the part of the ray $\overrightarrow{BA}$ which is outside the angle ∠ ACB
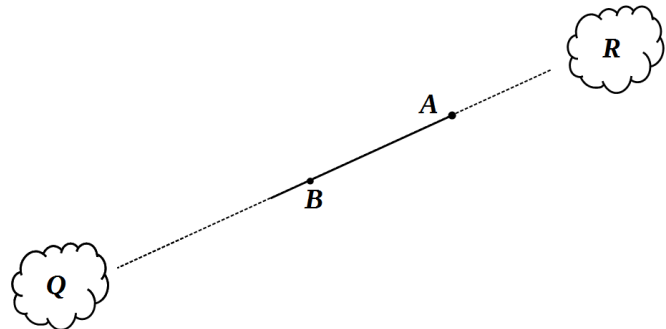
3

Compare the rays $\overrightarrow{AB}$ and $\overrightarrow{BA}$:

Does ray $\overrightarrow{AB}$ pierce cloud **R**? _____

Does ray $\overrightarrow{AB}$ pierce cloud **Q**? _____

Does ray $\overrightarrow{BA}$ pierce cloud **R**? _____

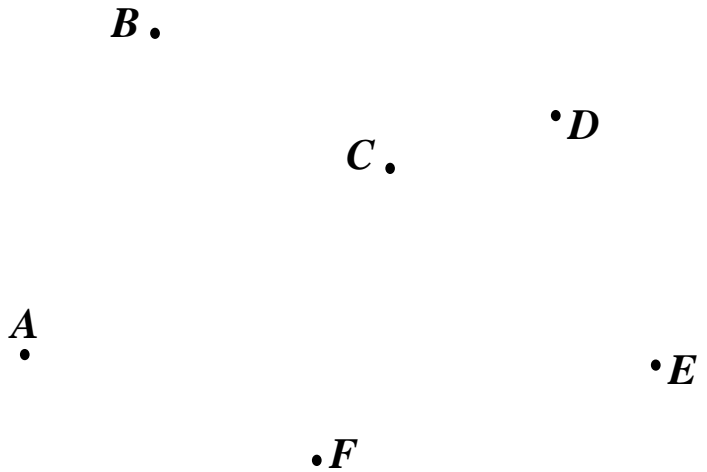Does ray $\overrightarrow{BA}$ pierce cloud **Q**? _____

4

Using a ruler, draw angles $\angle ABC$ and $\angle FDE$
Find the area which belong to both angles and shade it with a pencil.

$B\,\bullet$

$\bullet D$

$C\,\bullet$

A
$\bullet$

$\bullet E$

$\bullet F$

5

Express in meters, decimeters, and centimeters, using an example below.

      485 cm = 4m + 8dm + 5cm   56 dm = _____

      807 cm = _____   350 cm =_____

6

Evaluate an expression $(11 + x)$:

If $x = 11$: _____

If $x = 20$: _____

If $x = 550$: _____

7

Evaluate the expressions below for x = a, and y = 6.
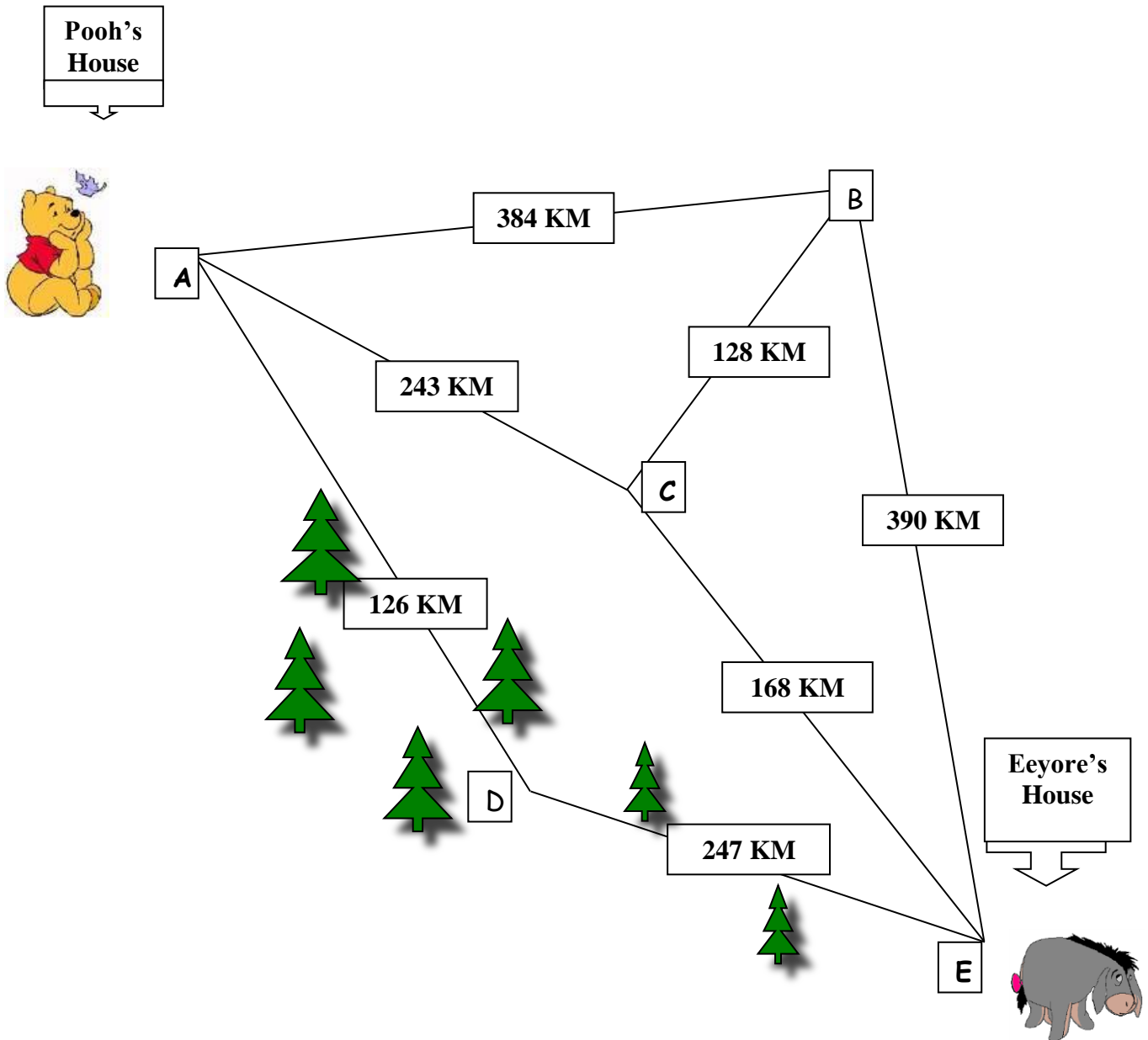
    x + y = _____

    6 − y =_____

    y − x = _____

8

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

Angles. Variables. Equation.

9

Travelling distances.

Pooh's House

384 KM

A

B

128 KM

243 KM

C

390 KM

126 KM

168 KM

Eeyore's House

D

247 KM

E

a) What is the distance from the point D to the point E? _____

b) If Eeyore goes to Pooh's house through the forest, what is the total distance he travels?
_____

c) What is the distance from the point B to the point E? _____

d) What is the total distance from point A to the point E via B? _____

e) What is the total distance from the point A to the point C via B? _____

f) If Pooh goes to Eeyore's house, which is the shortest route?_____

10 Calculate writing each problem in the columns (Don't forget to write ones under ones, etc.)

a) $324 + 801 + 70 =$ b) $482 + 199 + 39 =$ c) $791 + 191 + 555 =$

11 In the mazes below, begin at the shaded number. Find the skip counting pattern to escape. You can only move up, down, left or right to the next number. Use any color pencil to show your route (practice with a regular graphite pencil with an eraser first).

24	20	25	5	18
23	16	9	2	10
42	38	11	6	26
52	34	16	10	14
15	30	26	22	18

10	12	14	15	18
8	6	9	12	21
4	7	14	25	24
2	8	17	30	27
12	9	15	33	32

12 a) Alexia begins at 10 and skip counts by 10. Leron begins at 6 and skip counts by 6. What is the smallest number Alexia and Leron will both say?

10, ____, ____, ____,_____,_____,_____,_____,_____,_____,_____,_____,

6, ____, ____, ____,_____,_____,_____,_____,_____,_____,_____,

b) Lena begins at 4 and skip counts by 7. David begins at 4 and skip counts by 6. What is the smallest number after 4 they will both say?

4, ____, ____, ____,____, _____, ____, _____,

4, ____, ____, ____, ____,_____, ____, _____,

13 a) Ved wrote that $9 + 9 = 18$. Then he wrote that $9 + 9 + n = 18 - n$. Are both of his equations balanced? If not, write down balanced equations. _____

_____

b) Simon wrote that $a + a = 2a$. Then he wrote $a + a + b = a + a - b$. Are both of his equations balanced? If not, write down balanced equations. _____

_____