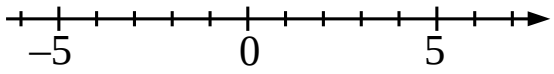
Math 4 Classwork #10

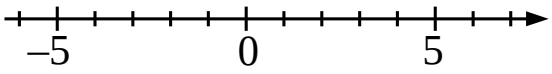
1. Calculate:

|5| = |– 5| = |5 – 2| = |2 – 5| = |–2 + (– 7)| =

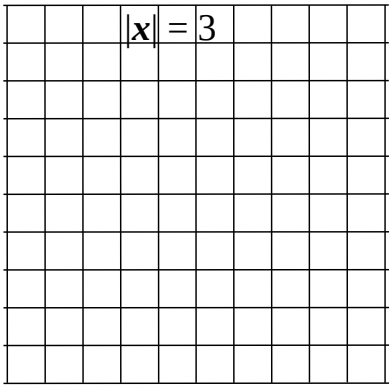
2. ***Cross out*** the equations that are ***impossible to solve;*** solve the rest of them:

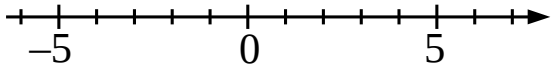


$|x| = 3$

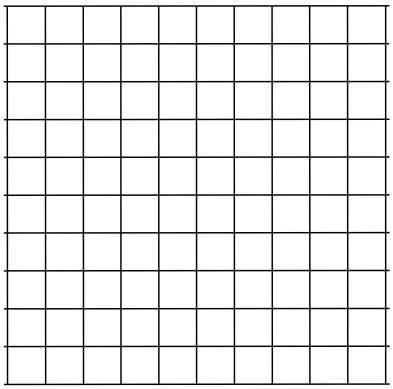


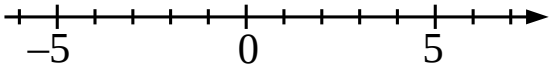
$|y| = 5$



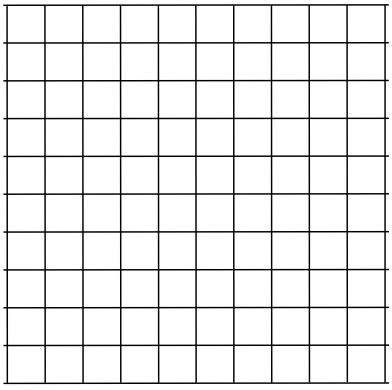


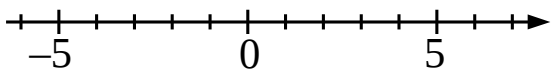
$|x| = -5$



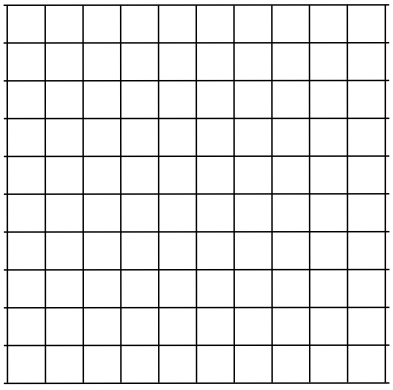


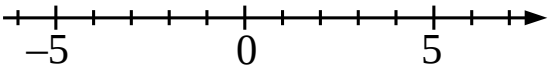
$|x - 2| = 3$

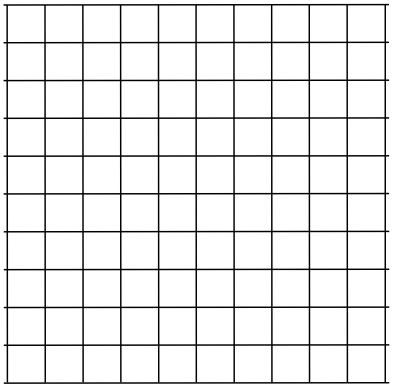




$|x - 2| = -3$







Math 4 Classwork #10

3. Solve the equations:

$\frac{2}{5}x = \frac{1}{4}$ $\frac{1}{5}x - \frac{1}{3} = \frac{1}{6}$ $\frac{1}{2} - \frac{3}{4}y = \frac{1}{4}$

4. Remove parentheses:

$(10 - 3\boldsymbol{x}) \cdot 4 + (2\boldsymbol{x} - 4\boldsymbol{y}) : 2 =$ _____

_____

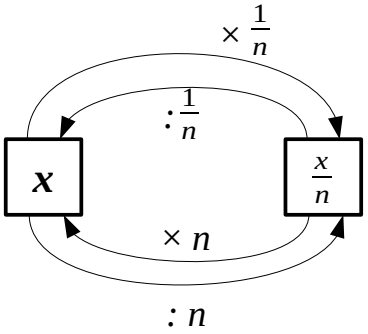
$(5 + \frac{1}{2}\ \boldsymbol{x}) \cdot 3 + (\boldsymbol{x} - 4) : 2 =$ _____

_____

5. Find …

$\frac{1}{4}$ *of* $\frac{1}{3}$ is $\frac{3}{4}$ *of* $\frac{1}{3}$ is

$\frac{1}{7}$ *of* $\frac{1}{3}x$ is $\frac{2}{7}$ *of* $\frac{1}{3}x$ is



6. ***Multiplying and dividing by*** $\boldsymbol{\frac{1}{n}}$.

$1 \times \frac{1}{5} =$ $\frac{1}{5} \times \frac{1}{5} =$ $\frac{1}{3} \times \frac{1}{5} =$

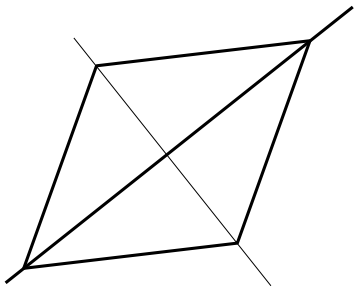
$1 : \frac{1}{5} =$ $\frac{1}{5} : \frac{1}{5} =$ $\frac{1}{3} : \frac{1}{5} =$

$2 \times \frac{1}{5} =$ $\frac{1}{10} : \frac{1}{5} =$ $\frac{1}{3} : \frac{1}{6} =$

$2 : \frac{1}{5} =$ $\frac{1}{10} \times \frac{1}{5} =$ $\frac{1}{3} \times \frac{1}{6} =$

Math 4 Classwork #10

Property of a rhombus:
diagonals of a rhombus are <u>perpendicular</u>.



7. Plot a rhombus ***ABCD*** such that |***AB***| = ***x***

A

C

x

8. Plot a straight line ***m*** perpendicular to the line ***RT***.

a

R

T

Math 4 Classwork #10

7. Make appropriate drawings to solve the equations. Compare the answers.

$144 : (x - 8) = 4$ $144 : x - 8 = 4$

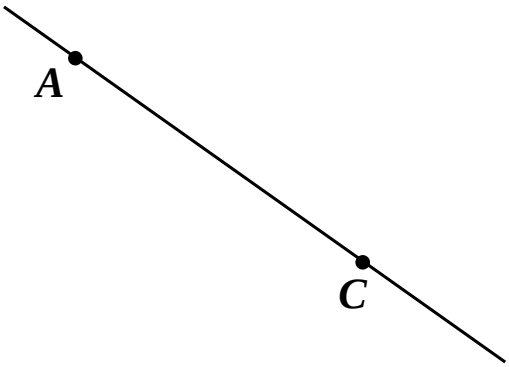
8. Plot rhombus ***ABCD*** each side of which is 5 cm long. Record your algorithm

_____

_____

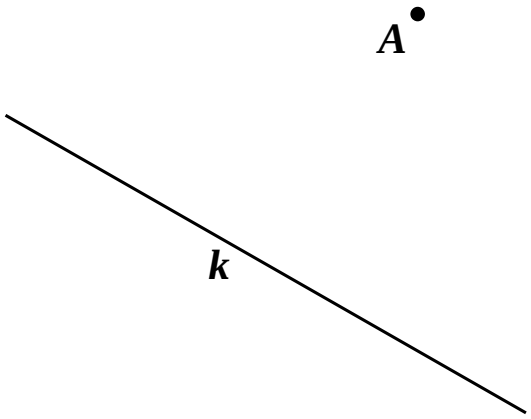
_____

_____



9. Follow the instructions below:

1. Plot w = Circ(A, 5 cm)
2. Find $\{B, D\} = w \cap k$
3. Plot h = Circ(B, 5 cm)
4. Plot g = Circ(D, 5 cm)
5. Find $C \in h \cap g$



What shape is ***ABCD***?