Homework #2

Assigned on September 27, 2020

Difficult problems are marked with * and are optional

- 1. Which of the following numbers are divisible by 3 and which of them are also divisible by 9?
 - 1. 75 432
 - 2. 2772825
 - 3. 5 402 070
- 2. Which of the following numbers are divisible by 11?
 - 1331 a.
 - 102 b.
 - 9009 c.
 - d. 90009
 - 1826 e.
- 3. Each number below is divisible by 3. One digit is covered with a smiley face. Try to guess what digit is hidden (you may get more than one answer)







4. Each number below is divisible by 9. One digit is covered with a smiley face. Try to guess what digit is hidden.

 $8 \odot 5 99 \odot 73 \odot 46 \odot 34 114 \odot 5$

5. Solve the following equations:

a.
$$5x-20 = 65$$

b.
$$\frac{100}{x-2} = 25$$

c.
$$\frac{3x}{6} = 5$$

6. Mike has 5 candies more than John. John has 8 candies less than Sam. Together they have 19 candies. How many candies does each boy have?

- 8. Draw two rays AB and CD so that they intersect:
 - a) by a point
 - b) by a segment
 - c) by a ray
 - d) don't intersect at all
 - 8. (a) On the segment *AB* mark a point "*M*". How many segments do we have on the picture?
 - (b) Mark a second point "P". How many segments do we have now?
 - (c) Mark a third point "*F*". Count segments.
 - (d) How many segments will be if you mark 5 points on the segment AB?
 - (e) How many segments will be if you mark 10 points on the segment AB?
 - * (f) How many segments will be if you mark 99 points on the segment AB?