

Homework #2

Assigned on September 23, 2018

Difficult problems are marked with * and are optional

1. Which of the following numbers are divisible by 3?

Which of them are also divisible by 9?

1. 75 432
2. 2 772 825
3. 5 402 070

2. In the number 5 236 845 cross out three digits so that the resulting number is
- a. Biggest possible number
 - b. Smallest possible number

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)

2😊5 46😊 7346😊 4😊56 😊14 5😊3

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

8😊5 99😊 73😊46 1😊346 😊34 114😊5

5. The Elephant-father weights 200 kilogram more than the Elephant-mother. The Elephant-mother weights 500 kilogram more than the Elephant-son. This family of three weights together 1800 kilograms. What is the weight of the Elephant-son?

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?

7. Place parentheses into the following expression so that the statement is true.

a) $96-12*6:3=8$

b) $64:64-8*4=2$

c) $63:9+54=1$

d) $75-15:5+10=22.$

7. 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 ?