

MATH 4: ASSIGNMENT 9

NOVEMBER 17, 2019

HOMEWORK

1. Compute:

a) $\frac{2}{9} + \frac{5}{6} =$

b) $2\frac{5}{8} - \frac{3}{4} =$

c) $\frac{7}{12} + \frac{5}{33} =$

d) $\frac{1}{10} - \frac{1}{11} =$

2. Compute. Absolute value of a number is a number's distance from 0 (zero).

For example $|-5|=5$; $|5|=5$

$$5 - 7 =$$

$$13 - 11 =$$

$$17 - 11 =$$

$$7 - 11 =$$

$$|5 - 7| =$$

$$|13 - 11| =$$

$$|17 - 11| =$$

$$|7 - 11| =$$

$$-15 - (-7) =$$

$$8 - (-7) =$$

$$3 - 17 =$$

$$-3 + (-7) =$$

3. Multiply fraction by a whole number. To multiply a fraction by a whole number, multiply

enumerator by this number. For example: $\frac{2}{5} \cdot 50 = \frac{2 \cdot 50}{5} = 20$

(a) $\frac{2}{3}$ of 27 boys $= \frac{2}{3} \cdot 27 =$

(b) $\frac{3}{8}$ of 32 chairs $= \frac{3}{8} \cdot 32 =$

(c) $\frac{4}{5}$ of 20 coins $=$

(d) $\frac{3}{4}$ of 16 stamps $=$

4. Peter was not keen on doing his homework in high school and at the end didn't go to any college. He had to take a job in a local supermarket. He was given an exciting assignment to put 476 cans on the shelves. On the second shelf he put 32 cans more then on the first one, on the third shelf he put 2 times more then on the first. How many cans Peter put on the first shelf?

5. Some planet in some star system in some galaxy far far away has a beautiful orange moon. The period from one full moon to the next one is 28 days. If a full moon falls on the 13th day of some month, how many days will pass before full moon again falls on the 13th if the planet has 15 months in a year, and each month is exactly 30 days? (*Hint: there are more facts then you need to solve this problem*)

6. You have 9 coins that are identical in weight except one, which is lighter than others. In how many steps you can isolate counterfeit coin using only the balance scales? Drawing your solution would be acceptable.

