Oberlin High School
Mathematics Department
Grade 10 Worksheet for the Week of October 5 - 9, 2020

Student Name: _____   Teacher: _____

Class: _____   Date Submitted: _____

General Instructions
    a) Solve all questions and show working.
    b) Take a picture of your work and email to **Oberlin.math@gmail.com** to be graded.

1. Calculate the exact value of:

   $$\frac{3\frac{1}{4} - 2\frac{1}{2}}{1\frac{5}{6}}$$ *(3 marks)*

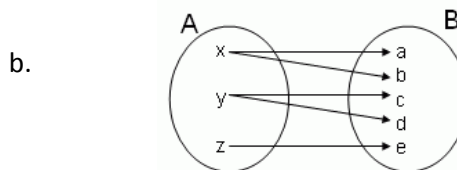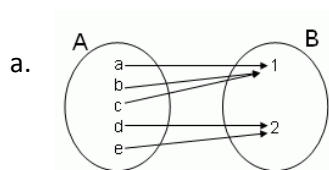2. Write the value of $(11.2)^2 - (0.375 \div 3)$
   a. exactly
   b. correct to two decimal places
   c. correct to three significant figures
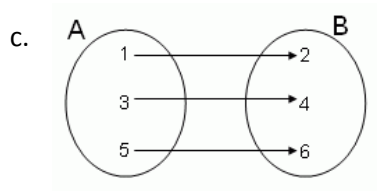   d. in standard form   *(6 marks)*

3. The price of a shirt is 100 dollars. The store manager gives a discount of 50 dollars. A man and his brother bought 4 shirts and then shared the cost equally with each other. Calculate the price paid by each brother.
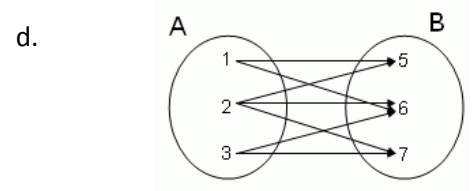   *(3 marks)*

4. Name the following type of relation for each diagram **AND** indicate whether or not it is a function:

a.   b.

    _____   _____

    _____   _____

c.

A
1 → 2
3 → 4
5 → 6
B

_____

_____

marks)

d.

A
1
2
3
B
5
6
7

_____

_____ (*8*

TOTAL: 20 MARKS