

CSCI 1100 – Fall 2015

Project Report - Part 1

Team:

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Project Title: Primary Education – “Guess number”

Due Date: November 13, 2015 (11:00pm on Moodle)

Declaration: Please complete this declaration		
1	This document is entirely our teams own work (and has not been used for any other academic purposes).	Yes
2	We obtained help to complete this document.	NO.
3	This document contains some material copied or cut and pasted from the internet or another document or file or program. These sources have all been properly cited.	Yes. The three example of education games are retrieve from: http://www.math-play.com/

Applications

1. Application name: Vocabulary Game

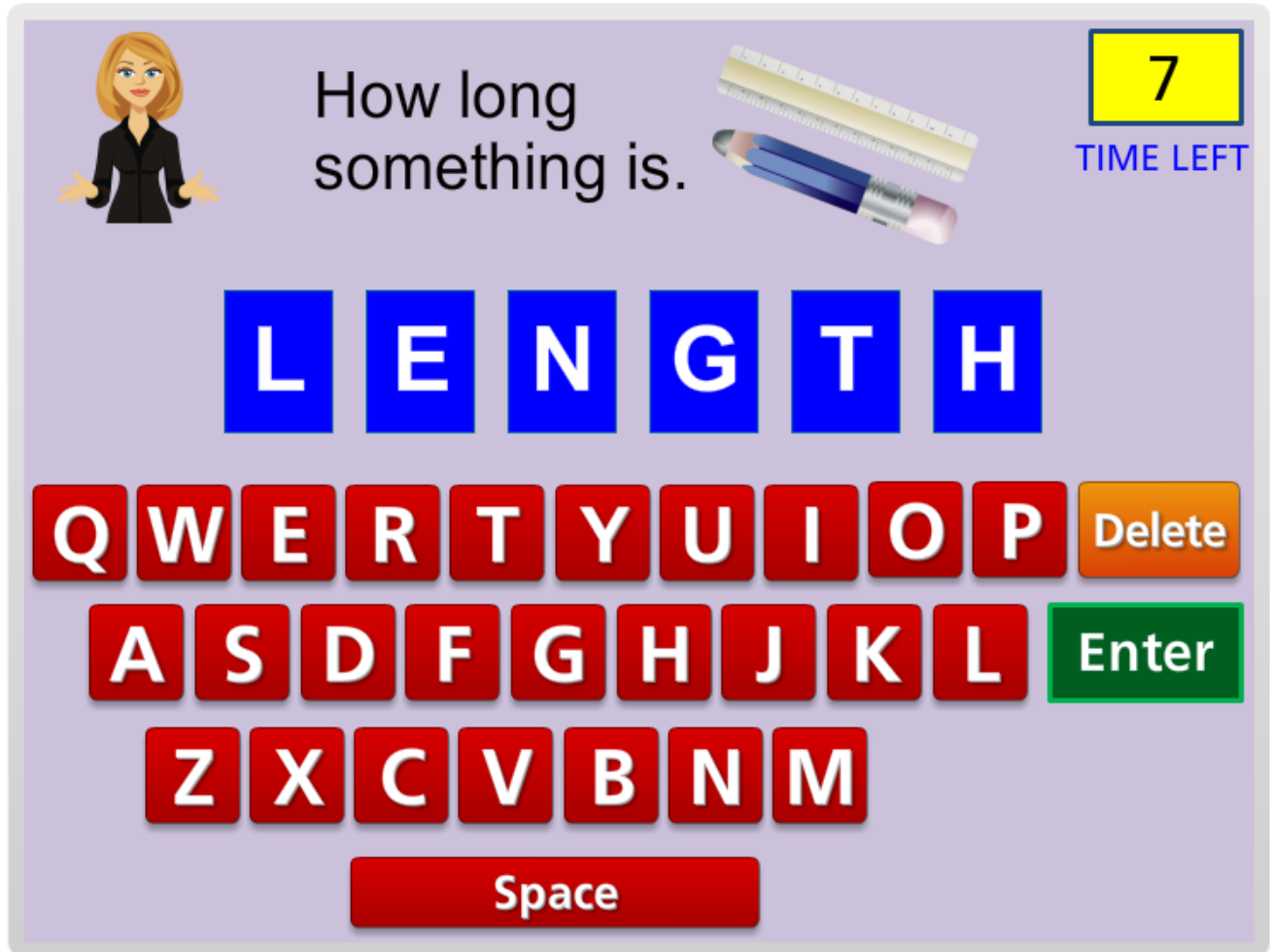


Figure 1: Vocabulary Game is designed to help the students to practice math vocabulary and definitions.

Description: Vocabulary Game will require to chose a level when user start this game. It will give a definition and a relative picture of the word, then user have to fill those blank space with required word and submit it in specific time, then the program will give a feedback to determine the answer is correct or incorrect.

The game features include:

1.Timer, the timer makes this game more challenging. If we use a timer in our program that could let the kids feel pushing them to finish this as soon as possible. As we know, kids are inattentive, if they are able to finish those on time, they will receive a sense of accomplishment.

2.An easy understanding interface. An easy understanding interface is also very important in education field. For teacher, they don't have to do to much of explanation. Kids could play this game without teaching them how is this game work.

3.A directly feedback. Every time as an user submit the answer to the game will return a feedback to tell "Congratulations" or " Incorrect, The correct answers is ...". A directly and opportune feedback is a very important feature for games, user could feel more interact with this game. Also a feedback with encouraging words will absolutely make the game playful.

The game is retrieve from: <http://www.math-play.com/1st-grade-vocabulary-game/first-grade-vocabulary-game.html>

2. Application name: Factors Millionaire



Figure 2: the interface of Factors Millionaire

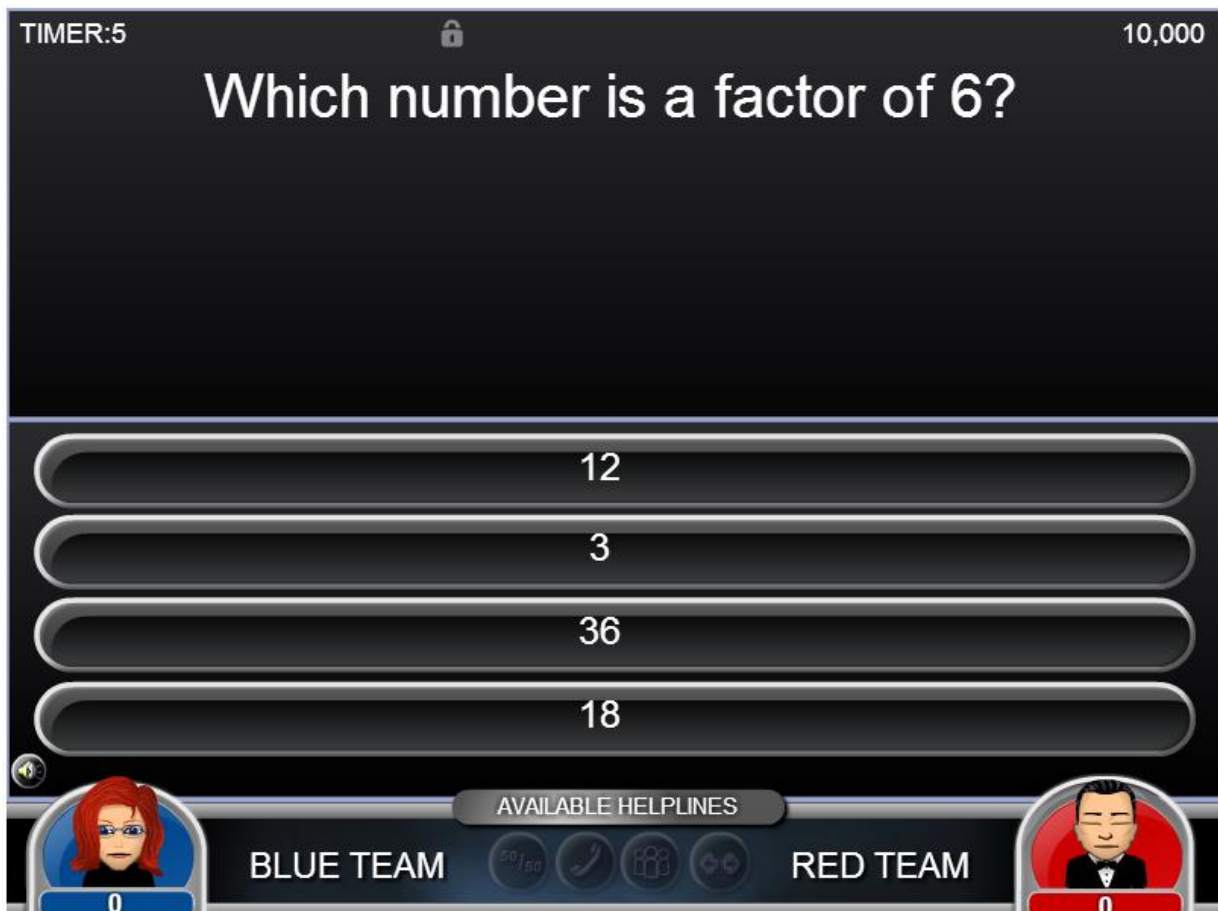


Figure 3: math question is given at top, and four choices will list at below.

Description: Factors Millionaire Game is a multiple-player math game. User could choose a team and a name to start. User will pretend they are in the “Millionaire” TV show. Users are required to answer math question. The math question complexity is related to the “money”. The more question they got right, the more money they will “receive”. Otherwise, if user given a wrong answer, they will lose “money”. Winner will be the one with most “money”.

The game features include:

1. Multi-player. Nothing is more fun than playing games with friend. Additionally, When people in competition; they are acting more active and focus. Kids will feel more interact with others. Not only make it more playful, also kids may more “willing” to play this game.

2. Scores. In this game the score is the “money”. Scores can encourage kids to answer those math question more carefully, because they can rank this.

3. A good story. The game will be boring if it have not a story. A good background story could be attractive to kids.

The game is retrieve from: <http://www.math-play.com/Factors-Millionaire/Factors-Millionaire.html>

3. Soccer Math

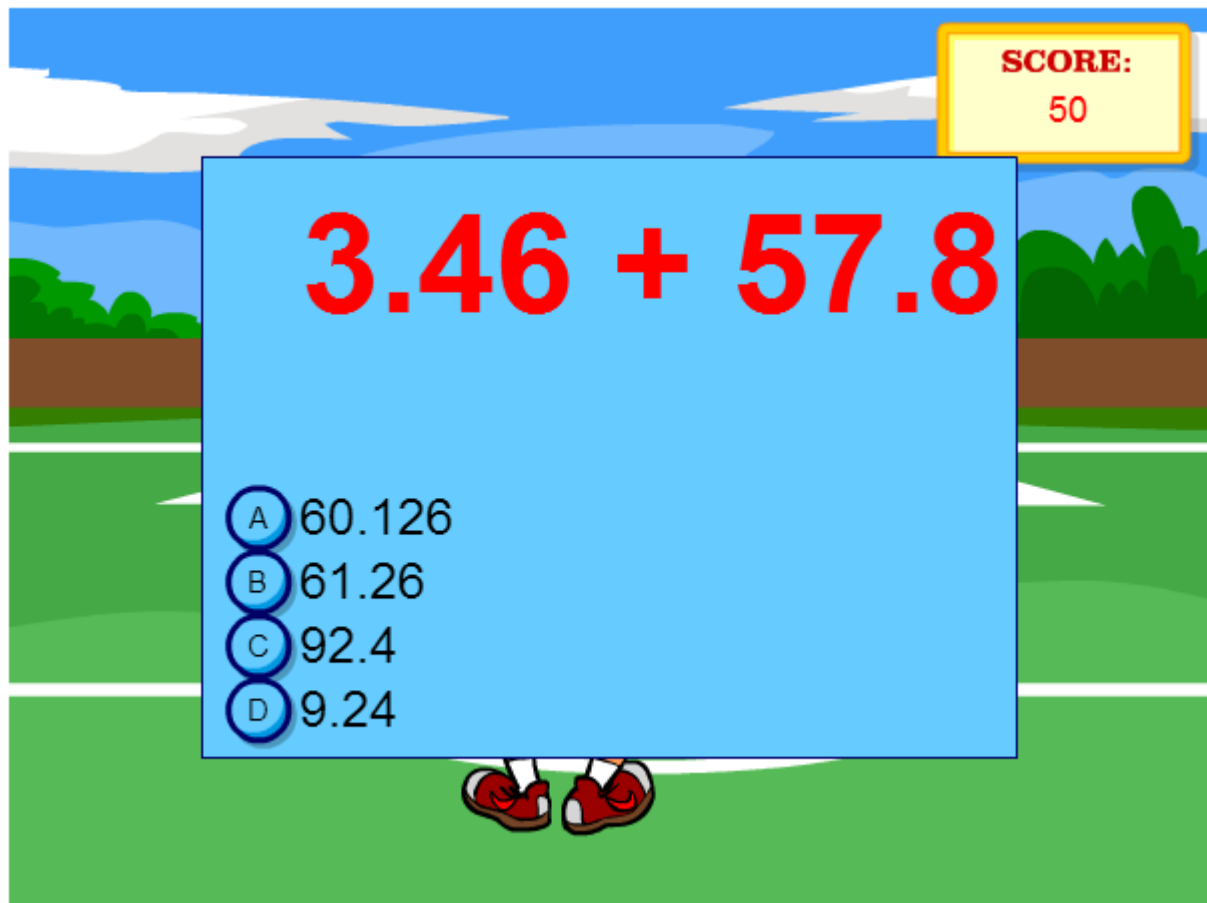


Figure 4: before shoot, user have to answer the math question



Figure 5: user will get a chance to shoot when answered correct answer.

Description: Soccer Math is combined a math game and a soccer game. The main purpose of this game is shot goal to reach next level and higher score. User is required to answer the math question first, then have to choose a direction and speed of the soccer for shooting. The probability for shot goal are not 100%, so that means user have to answer same kind of question and practice their math skill for many times. When user get the goal, the game level will up, the question complexity as well.

The game features include:

1. Aesthetics. This game is designed as cartoon style, kids will be Attracted.
2. Possibility. many kids think the education game are boring, but a destabilizing factor makes difference. Even kids really good at math they still can't easily get high score in this game. So, they will give it many try, until get a high score.
3. Levels. Score in this game is not the only grading. When kids reach really high level, they will feel the joy of success, they will like to play more and compete with friends.

The game is retrieve from: <http://www.math-play.com/soccer-math-adding-decimals-game/adding-decimals-game.html>

Top Features (and reasons)

1. An easy understanding interface. It is very important, especially our target population is children.
2. Aesthetics. More attractive.
3. Levels. Different challenges.

4. Scores. Shows how good they did.

5. Possibility. makes more fun.

Game Elements

1, Story. We are going to make up a story at the beginning of the game. Players need to save the princess from the devil, but player have to answer few math question to get weapon.

2, Levels. We are going to add in many levels to gain more challenges for players.

3, Scoring. The scores will display at the end of the game. The highest score will be the least tries. Also player will lose if they had too many times of tries.

4, Possibility. We going to ask players to guess a random number.

Sample Output

-----FUN MATH GAME-----

What is your name? Dylan

Hi, Prince Dylan, Your fiancée – Princess Mary is waiting you at Garden, you need bring her a gift.

(Answer Addition question to find a Gift)

What is the answer for $20+15=?$

35

You have look around of your room but didn't find anything.

What is the answer for $7+17=?$

25

The answer is wrong, the correct answer is 24. Don't let Princess wait too long !

What is the answer for $35+25=?$

60

You have find a beautiful necklace!

You run to Garden but princess is not there! Devil abducted her, and runs very quick.

(Answer Subtraction question to get a Mounts!)

What is the answer for $10-9=?$

1

You find a horse but it is too old.

What is the answer for $49-35=?$

14

You find a horse!

You come to the Demon Castle, but you have no idea how to get in.

(answer Multiplication question to get the gate key!)

What is the answer for $5*4=?$

25

The answers is not correct, the answer is 20. you are wasting time quick quick quick!

What is the answer for $3*12=?$

36

You look around and find nothing.

What is the answer for $5*12=?$

60

You find a rope and you climb over the wall.

It is time to fight with devil! But the only problem is you don't have a weapon!

(answer division question to get a weapon!)

What is the answer for $49/7=?$

7

You find a Sword!

What is the answer for $55/5=?$

11

You find an Armor!

What is the answer for $42/6=?$

7

You find a Shield!

Now! it is time to fight with evil devil! Rescue your princess!

(guess a number between 1-50, if you get wrong answer more than 5 times the devil will attack you first then you will be lose! Good luck.)

Guess a number between 0 and 50

43

The number is lower. Try again:

Guess a number between 0 and 50

33

The number is lower. Try again: Guess a number between 0 and 50

23

The number is higher. Try again: Guess a number between 0 and 50

15

Congratulations! You have bring your princess back, Since then, you lived a happy life.

You got score 150 out of 300!