FLOWCHART

Key:

W – wrong

C - correct

Q3 and Q4 are dynamic versions of Q1

Q3 and Q4 – follows the same pattern as Q1, i.e., if any part of Q3 or Q4 is answered incorrectly, then it’ll follow the same pattern as the corresponding part of Q1 would have followed.

All students (irrespective of answering correctly or incorrectly) would get Q1, Q3 and Q4.

Use  format for all fractions.

All the blanks when answered correctly by the students must have green border.

All the blanks when answered incorrectly by a student must have red border.

All the blanks when answered incorrectly by the students but replaced by correct answer (by the computer) must have blue border.

QUESTION

Q1) Which of the following is equal to 1/5 + 1/10?

* 3/10 (Correct answer)
* 1/50 (Product of num/product of den)
* 2/10(Sum of num/max of den)
* 2/15 (Sum of num/sum of den)

Value range for question 1 – The 2nd denominator must be a multiple of the 1st denominator eg, (2, 4) , (3,6), (4, 8), (5,10), (3, 5).

& Num < dem

Q2) Write the equivalent fractions of 1/5 and 1/10 so that their denominator is the same.

1/5 = [blank\_1]

1/10 = [blank\_2]

PROMPT

P1 – Hmm..that’s not correct!

The next few questions will help you solve the problem.

P2 – 1/5 is 1 out of 5 equal parts!

So we need to shade 1 part here.

P3- Try again!

P4 - Hmm..the denominator is given for you. Now try again!

P5 - 1/5 = 2/10

P6 - Now try the question again!

P7- See the explanation carefully.

P8 – Hmm..that’s not correct!  
Try the next activity to see why!

P9 - 2/15 is smaller than (1/5 + 1/10). See the representations of the two fractions again.

Press OK to go back to the main question again!

P10 – 2/15 is smaller than (1/5 + 1/10).

See the representation of the two fractions again!

Press OK to go back to the main question again!

ACTIVITY *(each line in the activity gets activated after the previous blank has been answered)*

A1) Represent 1/7 in the whole given by clicking on each part: 

A2) Represent 1/2 in the whole given by clicking on each part: 

A3) Represent 2/9 in the whole given by clicking on each part: 

A4) Do you still think 1/7 + ½ = 2/9? {Yes, No, Not sure}

**TEXT/ANIMATION**

T1) 1/4 = 3/12

2/3 = 8/12

¼ + 2/3 = 3/12 + 8/12 = 11/12 

T2) 1/7 + ½ is shown on the right.

Now compare 2/9 and (1/7 + 1/2). 

**HINT** Activated while student is attempting Q2 only.

Make the denominator 20 in both cases.