***RFRA004d***

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.

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

Make the denominator 8 in both cases.

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 3/4 - 1/8?

1. 2/8 (difference of numerator/max of denominators; **exception**-when both the numerators are the same then answer will also have same numerator and denominator will product of previous denominators)
2. 2/12 (difference of num/ sum of den; **exception**-when both the numerators are the same then answer will also have same numerator)
3. 2/4 (absolute value of difference of num/difference of deno; **exception**-when both the numerators are the same then answer will also have same numerator)
4. 5/8 (correct answer)

Value range for question 1

* (1/2, 1/4), (1/3, 1/4), (1/4, 1/8), (2/3, 1/4)

Q2) Write the equivalent fractions of 3/4 and 1/8 so that their denominators are the same. (same as question 1)

1. 3/4 = [blank\_1]
2. 1/8 = [blank\_2]

PROMPT

P1 – Hmm..that’s not correct!

The next few questions will help you solve the problem.

P3- Try again!

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

P5 – 3/4 = 3 x 2 /4 x 2 = 6/8

P6 - Now try the question again!

P7- See the explanation carefully. (highlight the correct answer after this step)

TEXT

T1) 3/4 = 6/8

1/8 = 1/8

3/4 – 1/8 = 6/8 – 1/8 = 5/8  {animation of 6 parts shaded first, and then 1 part gets faded out to represent the final answer: 5/8}