Math 365 Partial solutions to Exam 3 (white version)

1. 2-yes, 3-yes, 4-yes, 5-no, 6-yes, 7-no, 8-yes, 9-yes, 10-no, 11-yes
2. (a) $\text{GCD}(510, 690) = 30$
(b) $\text{LCM}(510, 690) = \frac{510 \cdot 690}{30} = 11,730$
(c) No. (Each is a factor of one of the two summands only.)
3. The least common multiple of 10, 8, and 30 is 120.
4. 1, 1
5. $\frac{4}{24}$
6. (a) $\frac{1}{27} + \frac{3}{18} + \frac{1}{9} = \frac{17}{54}$
(b) $\frac{a+b}{b}$
7. $\frac{3}{2}$, $\frac{3}{5}$, $\frac{3}{20}$, $\frac{18}{72}$ (it simplifies to $\frac{1}{4}$), $\frac{2}{256}$
8. F, T, T, F, T, F, T

Math 365 Partial solutions to Exam 3 (yellow version)

1. 2-yes, 3-yes, 4-no, 5-no, 6-yes, 7-yes, 8-no, 9-no, 10-o, 11-yes
2. (a) $\text{GCD}(380, 440) = 20$
(b) $\text{LCM}(380, 440) = \frac{380 \cdot 440}{20} = 8,360$
(c) No. (Each is a factor of one of the two summands but not both.)
3. The least common multiple of 10, 8, and 50 is 200.
4. 2, 0
5. $\frac{12}{20}$
6. (a) $\frac{8}{27} + \frac{1}{18} + \frac{1}{9} = \frac{25}{54}$
(b) $\frac{a}{a+b}$
7. $\frac{3}{2}$, $\frac{7}{3}$, $\frac{3}{8}$, $\frac{12}{60}$ (it simplifies to $\frac{1}{5}$), $\frac{5}{256}$
8. T, F, T, F, F, T, F