Question 30: The output: -1, 3, 0, -0.333333333333

Question 31: The issue with the code is that r2 is of the type of Object and not of type Rational. Rational has a compareTo method while Object does not causing a compile error.

Rational r1 = New Rational(-2,6);

Rational r2 = New Rational(1,45);

System.out.println(r2.compareTo(r1));

Question 32: The issue with the code is that r1 is of type Object when it should be of type Rational. Once this is changed the compile error is resolved.

Rational r1 = New Rational(-2,6);

Rational r2 = New Rational(1,45);

System.out.println(r2.compareTo(r1));