Solve the following:

1) $= 5\frac{2}{7} \div \left(-2\frac{1}{7}\right)$

2)   Vince bought $4\frac{1}{2}$ gallons of ice cream to serve. If a pint is $\frac{1}{8}$ of a gallon, how many pint-sized servings can he make?
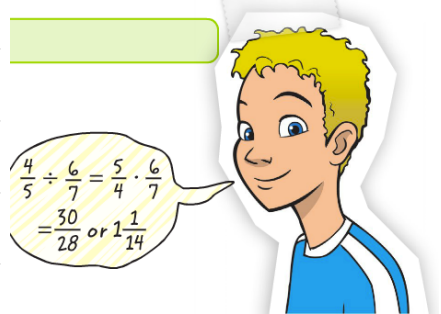
3) $\frac{5}{9} \div -\frac{5}{6}$

4) Blake is finding $\frac{4}{5} \div \frac{6}{7}$. Find his mistake and correct it.

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_____ $\frac{4}{5} \div \frac{6}{7} = \frac{5}{4} \cdot \frac{6}{7}$ $= \frac{30}{28}$ or $1\frac{1}{14}$

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Use order of operations to solve the following.

5) $(3-5)^2 + 10 \div 2$

6) $14 \div [(10-6) - (5-8)]$

7) What is the greatest common factor of 96 and 48?

8) What is the least common multiple of 14 and 28?

9) Identify the ratio that does not have the same value as the other three. Explain your reasoning.

| 12 out of 15 | 0.08 | 80% | $\frac{4}{5}$ |

10) A string is cut in half. One of the halves is thrown away. One fifth of the remaining half is cut away and the piece left is 8 feet long. How long was the string initially? Justify your answer.