KWANTLEN POLYTECHNIC UNIVERSITY

Conversion between Fractions and Decimals

1. Convert each improper fraction to a mixed number.

$$\frac{7}{3} = \qquad \frac{10}{7} = \qquad \frac{29}{5} =$$

$$\frac{41}{4} = \qquad \frac{11}{2} = \qquad \frac{35}{8} =$$

2. Convert each mixed number to an improper fraction.

$$6\frac{1}{3} = \qquad 3\frac{2}{5} = \qquad 8\frac{1}{9} =$$

$$4\frac{4}{9} = \qquad 3\frac{2}{7} = \qquad 9\frac{3}{10} =$$

3. Convert each decimal to a fraction or mix number.

$$0.75 = \qquad 3.15 = \qquad 1.024 =$$

4. Convert each fraction to a decimal.

$$\frac{1}{20} \qquad 2\frac{4}{50} \qquad 4\frac{3}{8}$$

5. Convert each percentage to a fraction with lowest term.

$$30\% = \qquad 1.5\% = \qquad 125\% =$$

6. Convert a fraction to a percentage notation.

$$\frac{3}{20} \qquad \frac{7}{800} \qquad 2\frac{2}{25}$$

7. Order the numbers from the least to greatest

$$3\frac{1}{5}, \quad 3, \quad \frac{17}{5}, \quad \frac{20}{7}$$

$$11\frac{2}{7}, \quad \frac{34}{3}, \quad 11\frac{3}{11}, \quad 11.125, \quad \frac{45}{4}$$

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Answer Key

1. Convert each improper fraction to a mixed number.

$$\frac{7}{3} = 2\frac{1}{3} \qquad \frac{10}{7} = 1\frac{3}{7} \qquad \frac{29}{5} = 5\frac{4}{5}$$

$$\frac{41}{4} = 10\frac{1}{4} \qquad \frac{11}{2} = 5\frac{1}{2} \qquad \frac{35}{8} = 4\frac{3}{8}$$

2. Convert each mixed number to an improper fraction.

$$6\frac{1}{3} = \frac{19}{3} \qquad 3\frac{2}{5} = \frac{17}{5} \qquad 8\frac{1}{9} = \frac{73}{9}$$

$$4\frac{4}{9} = \frac{40}{9} \qquad 3\frac{2}{7} = \frac{23}{7} \qquad 9\frac{3}{10} = \frac{93}{10}$$

3. Convert each decimal to a fraction or mix number.

$$0.75 = \frac{3}{4} \qquad 3.15 = 3\frac{3}{20} \qquad 1.024 = 1\frac{3}{125}$$

4. Convert each fraction to a decimal.

$$\frac{1}{20} = 0.05 \qquad 2\frac{4}{50} = 2.08 \qquad 4\frac{3}{8} = 4.375$$

5. Convert each percentage to a fraction with lowest term.

$$30\% = \frac{3}{10} \qquad 1.5\% = \frac{3}{200} \qquad 125\% = 1\frac{1}{4}$$

6. Convert a fraction to a percentage notation.

$$\frac{3}{20} = 15\% \qquad \frac{7}{800} = 0.875\% \qquad 2\frac{2}{25} = 208\%$$

7. Order the numbers from the least to greatest

$$3\frac{1}{5}, \ 3, \ \frac{17}{5}, \ \frac{20}{7} \qquad \frac{20}{7} < 3 < 3\frac{1}{5} < \frac{17}{5}$$

$$11\frac{2}{7}, \ \frac{34}{3}, \ 11\frac{3}{11}, \ 11.125, \ \frac{45}{4} \qquad 11.125 < \frac{45}{4} < 11\frac{3}{11} < 11\frac{2}{7} < \frac{34}{3}$$