Hw 17/11/2021

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Exercise-13 (A)

1. Express each of the following as percentage.

c. $\frac{3}{100} = 3\%$

d. $\frac{85}{100} = 85\%$

e. $\frac{29}{100} = 29\%$

2. Express each of the following as a fraction with 100 as the denominator.

c. $62\% = \frac{62}{100}$

d. $69\% = \frac{69}{100}$

e. $63\% = \frac{63}{100}$

3. Express each of the following as a percentage

c. $\frac{17}{20} = \frac{17}{\cancel{20}} \times \frac{100^{5}}{1} = \_\_\_\_\%$

d. $4\frac{1}{2} = \frac{9}{2} = \frac{9}{2} \times \frac{50}{100} = 450\%$

e. $\frac{17}{10} = \frac{17}{10} \times \frac{10}{100} = 170\%$

4. Express each of the following as a fraction in its lowest term.

c. $78\% = \frac{78}{100} = \frac{39}{50}$

d. $82\% = \frac{82}{100} = \frac{41}{50}$

e. $67\frac{1}{2}\% = \frac{67\frac{1}{2}}{100} = \frac{135}{2} \times \frac{1}{100}$

e. $67\frac{1}{3}\% = \frac{202}{3}\% = \frac{202}{3} \div 100 = \frac{202}{3} \times \frac{1}{100}$

$= \frac{202}{300} = \frac{101}{150}$

f. $112\frac{1}{2}\% = \frac{225}{2}\% = \frac{225}{2} \div 100$

$= \frac{225}{2} \times \frac{1}{100} = \frac{45}{40} = 1\frac{5}{40} = 1\frac{1}{8}$

g. $16\frac{2}{3}\% = \frac{50}{3}\% = \frac{50}{3} \div 100 = \frac{50}{3} \times \frac{1}{100}$

$= \frac{1}{6}$

h. $1\frac{1}{2}\% = \frac{3}{2}\% = \frac{3}{2} \div 100 = \frac{3}{2} \times \frac{1}{100} = \frac{3}{200}$

5. Express each of the following as a decimal fraction.

c. $69\% = \frac{69}{100} = 0.69$

d. $81\% = \frac{81}{100} = 0.81$

e. $105\% = \frac{105}{100} = 1.05$

f. $250\% = \frac{250}{100} = 2.50$

g. $6.25\% = 6.25 \div 100 = 0.0625$

b. $10.02\% = 10.02 \div 100 = 0.1002$

6. Express each of the following decimal fractions into percentage.

c. $2.76 = 2.76 \times 100 = 276\%$

d. $9.243 = 9.243 \times 100 = 924.3\%$

e. $6.025 = 6.025 \times 100 = 602.5\%$

f. $3.96 = 3.96 \times 100 = 396\%$

g. $4.20 = 4.20 \times 100 = 420\%$

h. $8.75 = 8.75 \times 100 = 875\%$