

18.11.21 Percentage

Hw ch-13
EXERCISE 13(A)

1. a. $0.37 = 37\% = 3$

b. $0.18 = 18\%$

c.

1. a) $\frac{37}{100} = 0.37 = 37\%$

b) $\frac{18}{100} = 0.18 = 18\%$

c) $\frac{3}{100} = 0.03 = 3\%$

d) $\frac{85}{100} = 0.85 = 85\%$

e) $\frac{29}{100} = 0.29 = 29\%$

2. a. $41\% = \frac{41}{100} = 0.41$

b. $56\% = \frac{56}{100} = 0.56$

c. $62\% = \frac{62}{100} = 0.62$

d) $69\% = \frac{69}{100} = 0.69$

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e) $93\% = \frac{93}{100} = 0.93$

3. a) $\frac{1}{4} = \frac{1}{4} \times \frac{25}{25} = 25\%$

b) $\frac{9}{10} \times \frac{100}{100} = 90\%$

c) $\frac{17}{20} = \frac{17}{20} \times \frac{5}{5} = 85\%$

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

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

4. a. $38\% = \frac{38}{100} = \frac{19}{50}$

b. $47\% = \frac{47}{100}$

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

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$$d. 82\% = \frac{8241}{10050} = \frac{41}{50}$$

$$e) 105\% = \frac{105}{100} = \frac{21}{20}$$

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

$$\frac{101}{\cancel{202}} \times \frac{1}{\frac{100}{50}} = \frac{101}{150}$$

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

$$\frac{225}{2} \times \frac{1}{100} = \frac{9}{8} = \frac{11}{8}$$

$$g) 16\frac{2}{3}\% = \frac{50}{3} \div 100$$

$$\frac{50}{3} \div \frac{100}{1} = \frac{50}{3} \times \frac{1}{100} = \frac{5}{30} = \frac{1}{6}$$

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$$h) \text{ } \frac{3}{2} \% = \frac{3}{2}$$

$$h) 1\frac{1}{2} \% = \frac{3}{2}$$

$$5.a) 13 \% = \frac{13}{100} = 0.13$$

$$b) 24 \% = \frac{24}{100} = 0.24$$

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

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

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

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

$$g) 6.25 = \frac{625}{100} = \frac{25}{4} = 6.25$$

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$$h) 10.02\% = \frac{1002}{100} = \frac{501}{50} = 10.22$$

$$6) a) 0.58 = \frac{58}{100} \times \frac{100}{1} = 58\%$$

$$b) 0.483 = \frac{483}{1000} \times \frac{1000}{1} = 48.3\%$$

$$d) 9.243 = \frac{9243}{1000} \times \frac{1000}{1} = 924.3\%$$

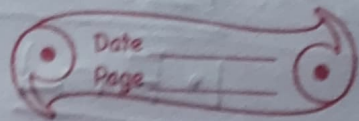
$$c) 2.76 = \frac{276}{100} \times \frac{100}{1} = 276\%$$

$$e) 6.025 = \frac{6025}{1000} \times \frac{1000}{1} = 602.5\%$$

$$f) 3.96 = \frac{396}{100} \times \frac{100}{1} = 396\%$$

$$g) 4.20 = \frac{420}{100} \times \frac{100}{1} = 420\%$$

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h) $8.75\% = \frac{875}{100} \times \frac{100}{100} = 875\%$

7) Which of the following decimal fraction into percentage,

a) 0.5 b) 0.05 c) 5 d) 0.005

8) Which of the following is equivalent to 12.5%?

a) 1.25 ~~b) 0.00~~
b) 0.0125
c) 125
d) 0.125

9) Which of the following is equivalent to 7.5?

a) 75% b) 750% c) 0.75% d) 7.5%

10) Which of the following is equivalent to 6.08?

a) 60.8% b) 6.08% c) 608% d) 0.608%