

Decimals and Percentages Part 6

Exercise Worksheet 4.6 Solutions

1. Convert the following decimals to percentages:

$$\text{i. } 0.90 = \frac{90}{100} = 90\%$$

$$\text{ii. } 0.94 = \frac{94}{100} = 94\%$$

$$\text{iii. } 0.47 = \frac{47}{100} = 47\%$$

$$\text{iv. } 1.29 = \frac{129}{100} = 129\%$$

$$\text{v. } 0.39 = \frac{39}{100} = 39\%$$

$$\text{vi. } 0.47 = \frac{47}{100} = 47\%$$

$$\text{vii. } 0.76 = \frac{76}{100} = 76\%$$

$$\text{viii. } 1.36 = \frac{136}{100} = 136\%$$

$$\text{ix. } 0.88 = \frac{88}{100} = 88\%$$

$$\text{x. } 0.44 = \frac{44}{100} = 44\%$$

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2. Write the following fractions as percentages to the nearest whole number:

$$\text{i. } \frac{49}{100} = 49\%$$

$$\text{ii. } \frac{91}{100} = 91\%$$

$$\text{iii. } \frac{13}{100} = 13\%$$

$$\text{iv. } \frac{33}{100} = 33\%$$

$$\text{v. } \frac{16}{25} = 64\%$$

$$\text{vi. } \frac{79}{100} = 79\%$$

$$\text{vii. } \frac{9}{25} = 36\%$$

$$\text{viii. } \frac{39}{50} = 78\%$$

$$\text{ix. } \frac{31}{50} = 62\%$$

$$\text{x. } \frac{51}{100} = 51\%$$

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3. Write the following percentages as a decimal:

i. $0.29 = 29\%$

ii. $0.6 = 60\%$

iii. $0.84 = 84\%$

iv. $0.48 = 48\%$

v. $0.43 = 43\%$

vi. $0.15 = 15\%$

vii. $0.22 = 22\%$

viii. $0.78 = 78\%$

ix. $0.65 = 65\%$

x. $0.61 = 61\%$

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4. Solve the following real life problems:

- i. Ali has 4500 Rupees. He gives 1500 Rupees to his sister. What percentage did he give to his sister? Give your answer to the nearest whole number.

Solution:

Total = 4500 Rupees

Given away = 1500 Rupees

$$\text{Percentage given away} = \frac{1500}{4500} \times 100 = 33\%.$$

- ii. A woman's monthly income is 11000 Rupees. If she spends 9500 Rupees, what percentage of his income is he saving? Give your answer to the nearest tenth.

Solution:

$11000 - 9500 = 1500$ Rupees Saved

$$\text{Percentage Saved} = \frac{1500}{11000} \times 100 = 13.6\%$$

- iii. I have typed 35% of my hand written notes. If I have 80 pages to type altogether then how many pages have I typed?

Solution:

$$\text{No. of typed pages} = \frac{35}{100} \times 80 = 28$$

- iv. The total length of a flag pole is 35 metres. Suppose that the length of the pole inside the ground is 1.5 metres. What is the percentage of the flag pole above the ground? Give your answer to the nearest whole number

Solution:

$$\text{Above Ground} = 35 - 1.5 = 33.5 \text{ metres}$$

$$\text{Percentage Above Ground} = \frac{33.5}{35} \times 100 = 96\%$$

- v. A man wins 20,000 Rupees in a competition. He gives 15% of the amount to each of his two children. He also gives 25% of the amount to his wife.
How much does he give away altogether?

Solution:

$$\text{Given away} = 15\% + 25\% = 40\%$$

$$\text{Two Children + Wife get} = \frac{40}{100} \times 20000 = 8000 \text{ Rupees.}$$