

Al Moattasem International School

Level 5

Mathematics

Revision worksheet -2 Answers

Chapter 7 -Percent, Ratio and Proportion

1. Express each of the following as percent

I. $\frac{17}{25}$
 $\frac{17}{25} \times 100 = 68\%$

Ans = 68%

II. 0.65
 $0.65 \times 100 = 65.00$

Ans = 65%

III. $\frac{63}{350}$
 $= \frac{63}{350} \times 100 = 18$

Ans = 18%

IV. $\frac{37}{50}$
 $= \frac{37}{50} \times 100 = 74$

Ans = 74%

V. 8.9

$$8.9 \times 100 = 890.0$$

Ans=890

2. Express each percent as a

a) decimal b) fraction

I. 64%

II. 28%

III. 25%

	decimal	fraction
I. 64%	$\frac{64}{100} = 0.64$	$\frac{64}{100} = \frac{32}{50} = \frac{16}{25}$
II. 28%	$\frac{28}{100} = 0.28$	$\frac{28}{100} = \frac{7}{25}$
III. 25%	$\frac{25}{100} = 0.25$	$\frac{25}{100} = \frac{1}{4}$

3. Find the following

I. 70% of 3

$$\frac{70}{100} \times 3 = \frac{210}{100} = 2.10$$

Ans = 2.10

II. 8% of 2000

$$\frac{8}{100} \times 2000 = 160$$

Ans = 160

III. 15% of 90

$$\frac{15}{100} \times 90 = \frac{1350}{100} = 13.50$$

Ans = 13.50

4. A total of 500 people took part in a dancing competition. 28% of them were females. How many male participants were there?

Total people participated in dance competition = 500

Number of females = 28% of 500

$$\frac{28}{100} \times 500 = 28 \times 5 = 140$$

$$\text{Male participants} = 500 - 140 = 360$$

5. In a pond there are 400 fish. 30% of them are guppies. 25% of them are mollies. The rest are swordtails. How many swordtails than guppies are there?

Total fish = 400

Number of guppies=30 % of 400

$$\frac{30}{100} \times 400 = 30 \times 4 = 120.$$

Number of mollies=25% of 400

$$\frac{25}{100} \times 400 = 100$$

Number of swordtails=400-(120+100)

$$=400-220 = 180$$

Or

Total fish=400

Percent of guppies=30%

Percent of mollies=25%

Total percent=100%

Percent of swordtails=100-(30+25)

$$100-55=45\%$$

Number of swordtails=45% of 400

$$\frac{45}{100} \times 400 = 180$$

6. The total marks of Talha and Akmal in a mathematics test were 171. Akmal scored 17 more marks than Talha. How many marks did each of them score for the test?

Total marks=171

Let the marks scored by Talha be 1 unit

Marks scored by Akmal=1 unit +17 (17 more than Talha)

Total=1 unit+1 unit+17

171=1 unit+1 unit+17

171=2 units+17

2 units=171-17

2 units=154

1 unit= $\frac{154}{2}=77$

Marks scored by Talha =77

Marks scored by Akmal=77+17=94