

**5.0 PERCENTAGE****5.1.1** Convert fraction of a hundredths to a percentage.

No	Ques	Answer	No	Ques	Answer
1	$\frac{1}{100}$	Example 1%	8	$\frac{11}{100}$	
2	$\frac{2}{100}$		9	$\frac{14}{100}$	
3	$\frac{5}{100}$		10	$\frac{23}{100}$	
4	$\frac{3}{100}$		11	$\frac{13}{100}$	
5	$\frac{7}{100}$		12	$\frac{42}{100}$	
6	$\frac{9}{100}$		13	$\frac{51}{100}$	
7	$\frac{6}{100}$		14	$\frac{99}{100}$	

## 5.1.2 Convert percentage to a fraction of hundredths.

No	Ques	Answer	No	Ques	Answer
1	3 %	Example $\frac{3}{100}$	8	15 %	
2	12 %		9	31 %	
3	8 %		10	26 %	
4	19 %		11	38 %	
5	45 %		12	76 %	
6	63 %		13	18 %	
7	74 %		14	88 %	

5.2.1 Convert proper fraction with the denominators of 2,4,5,10,20,25,50 to a percentage.

No	Ques	Answer	No	Ques	Answer
e.g 1.	$\frac{1}{2}$	$\frac{1 \times 50}{2 \times 50} = \frac{50}{100} = 50\%$	e.g 2.	$\frac{2}{25}$	$\frac{2 \times 4}{25 \times 4} = \frac{8}{100} = 8\%$
1	$\frac{1}{4}$		7	$\frac{3}{10}$	
2	$\frac{3}{4}$		8	$\frac{7}{10}$	
3	$\frac{1}{5}$		9	$\frac{7}{20}$	
4	$\frac{2}{5}$		10	$\frac{13}{20}$	
5	$\frac{3}{5}$		11	$\frac{8}{25}$	
6	$\frac{4}{5}$		12	$\frac{24}{25}$	

5.2.2 Express each fraction below in its simplest form and  
Convert the fraction to percentage.

No	Ques	Answer	No	Ques	Answer
e.g 1	$\frac{3}{6}$	$\frac{3}{6} = \frac{1 \times 50}{2 \times 50} = \frac{50}{100} = 50\%$	e.g 2	$\frac{6}{75}$	$\frac{2 \times 4}{25 \times 4} = \frac{8}{100} = 8\%$
1	$\frac{2}{8}$		9	$\frac{9}{75}$	
2	$\frac{9}{12}$		10	$\frac{12}{75}$	
3	$\frac{3}{15}$		11	$\frac{18}{75}$	
4	$\frac{6}{15}$		12	$\frac{8}{80}$	
5	$\frac{9}{15}$		13	$\frac{16}{80}$	
6	$\frac{12}{15}$		14	$\frac{24}{80}$	
7	$\frac{3}{30}$		15	$\frac{54}{90}$	
8	$\frac{9}{30}$		16	$\frac{63}{90}$	

5.2.3 State the percentage from shaded region.

1.

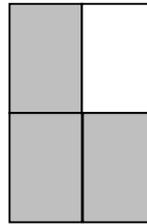


$$\frac{2 \times 20}{5 \times 20} = \frac{40}{100} = 40\%$$

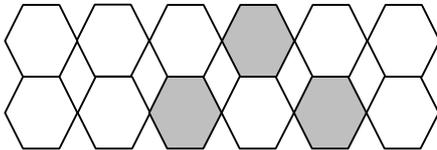
Or

$$\frac{2}{5} \times 100\% = 40\%$$

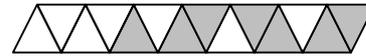
2.



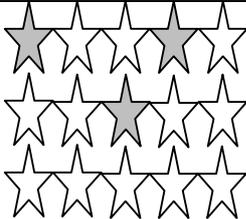
3.



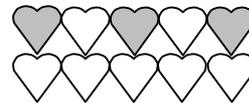
4.



5.



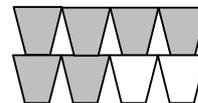
6.



7.



8.



5.2.4 State the percentage from shaded region.

1.

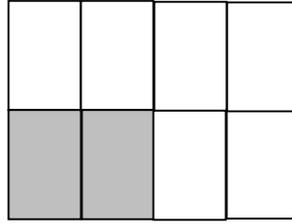


$$\frac{2 \times 20}{5 \times 20} = \frac{40}{100} = 40\%$$

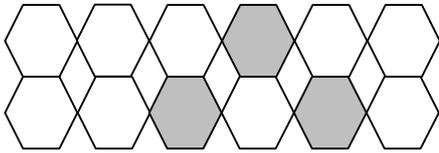
Or

$$\frac{2}{5} \times 100\% = 40\%$$

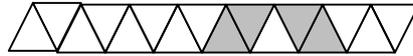
2.



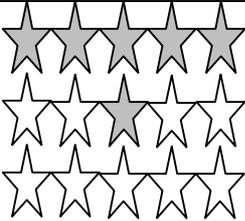
3.



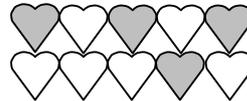
4.



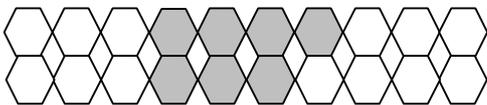
5.



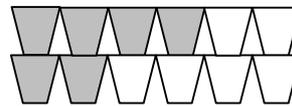
6.



7.



8.



## 5.3.1 Solve problem. Finding the value of percentage of a certain quantity .

No	Question	Answer
e.g	3% of 600 is	$\frac{3}{100} \times 600 = \frac{1800}{100} = 18$
1	4% of 3000 is	
2	8 % of 700 is	
3	9% of 2000 is	
4	2% of 300 is	
5	7% is 4000 is	
6	10% of 300 is	

## 5.3.2 Solve problem. Percentage of a certain quantity.

No	Question	Answer
e.g	3% of 60 is	$\frac{3}{100} \times 60 = \frac{180}{100} = 1.8$
1	4% of 30 is	
2	8 % of 70 is	
3	9% of 2 is	
4	2% of 3 is	
5	7% of 4 is	
6	15% of 60 is	

5.3.3 Solve problem. Percentage of certain value of measurement.  
Give your answer in small units

No	Question	Answer
e.g	3% of 6l	Convert the units 6l = 6000 ml $\frac{3}{100} \times 6000 = \frac{18000}{100} = 180$
1	4% of 3km	
2	8 % of 7kg	
3	9% of 2.4 km	
4	2% of 0.3 kg	
5	7% of RM45	
6	10% of 3.2 m	

## 5.3.4 Solve problem. Percentage of certain value of measurement

No	Question	Answer
e.g	35% of 60g	$\frac{35}{100} \times 60 = \frac{2100}{100} = 21\text{g}$
1	45% of 30ml	
2	85 % of 70 m	
3	90% of 22 cm	
4	25% of RM3	
5	70% of RM55	
6	45% of 50 g	

## 5.4.1 Problems Solving in daily life situation : Percentage

Question	Solving
e.g What is the percentage of 4 boys out of 40 pupils in a class?	$\frac{4}{40} = \frac{1 \times 10}{10 \times 10} = \frac{10}{100} = 10\% \text{ or}$ $\frac{4}{40} \times 100\% = \frac{400\%}{40} = 10\%$
1. What is the percentage of 8 boys out of 40 pupils in a class?	
2. What is the percentage of 12 cows out of 50 cows which are reared by Kannan?	
3. What is the percentage of 4 mangoesteen out of 20 fruits in the basket?	
4. What is the percentage of 6 story books out of 30 book on the shelf?	
5. What is the percentage of 21 days out of 30 days?	

Question	Answer
6. What is the percentage of 6 pencils from 18 Pencils?	
7. Ali has 10 red marbles, 5 white marbles and 15 green marbles. What is the percentage of the green marbles?	
8. What is the percentage of 25 marbles of 125 marbles?	
9. What is the percentage of 7 books from 28 books?	
10. What is the percentage of 5 teachers of 40 teachers?	

## 5.4.2 Problem solving : Percentage

Question	Solving
e.g. 30% of 60 persons are wearing red hat. What is the numbers of pupils wearing red hat?	red hats = $30\% \times 60 = 18$
1. 40% of 50 pupils get A in Mathematics, while the rest get B. What is the number of pupils who get A in mathematics?	
2. 65% of 300 birds are sparrows and the rest are Mynah. What is the number of sprrows?	
3. 85% of 200 hens lay eggs. What is the numbers of hen lay eggs?	
4. 75% of 800 pupils are come from Kampung P and the rest are from kampong Q. What is the percentage of pupils from Kampong Q?	
5. 30% of 1200 pupils wear spectacles. Calculate the number of pupils wearing Spectacles?	

## 5.4.3 Problem solving : Percentage

Question	Solving
e.g. 30% of 60 persons are wearing red hat. What is the numbers of pupils wearing blue hat?	Remainders from 30% = 70%  Blue hats = 70% × 60 = 42
1. 40% of 50 pupils get A in Mathematics, while the rest get B. What is the number of pupils who get B in mathematics?	
2. 65% of 300 birds are sparrows and the rest are Mynah. What is the number of Mynah?	
3. 85% of 200 hens lay eggs. What is the numbers of hen which do not lay eggs yet?	
4. 75% of 800 pupils are come from Kampung P and the rest are from kampong Q. What is the number of pupils from Kampung Q?	
5. 30% of 1200 pupils wear spectacles. Calculate the number of pupils not wearing Spectacles?	

