

YEAR 8 MATHEMATICS WEEK 9 2020 (TERM 1)

Year: 8

Date: Tuesday 31 March 2020

STRAND: NUMBERS

TOPIC: PERCENTAGE (%)

LESSON OUTCOME: At the end of this lesson student(s) should be able to calculate mixed problems on % of Amounts.

Instructions: Hi dear Parents/Guardians and students - In this Lesson students are going to do mixed problems on % and do the selected questions for **Exercise 3.22**.

*[Note that all the Quizzes/Test and or Assignment will be based on the selected questions for each exercise. These lessons are designed for **one hour per Lesson**.]*

What to do: Read through the Examples below and do the following selected questions

Exercise 3.22: Question 3 (Do: f, g, h, i)

Question 5 (Do: All)

Solutions: Solutions will be available online via

<https://www.facebook.com/centralschoolemergencyforum/posts/108720557434149>

Calculate the following to find the son's reply.

S 35% of 90

E 60% of 180

N 75% of 250

H 25% of 96

G 72% of 256

Y 32% of 145

32	24	46.4	5	31.5	150	24	108	80	108	180	187.5	108	800	5	31.5	31.5	5	107.5	104.92
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1. Copy and complete this table:

%	Fraction out of 100	Simplest fraction
a. 75%		
b. 90		
c. 40		
d.	$\frac{50}{100}$	
e.	$\frac{30}{100}$	
f.	$\frac{80}{100}$	
g. 32		
h. 88		
i. 44		
j.	$\frac{24}{100}$	

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2. Copy and complete this table:

Fraction	Decimal	Percentage
$\frac{3}{4}$		
$\frac{4}{5}$		
	0.23	
		65%
		$13\frac{1}{2}\%$

3. a. Give $\frac{3}{5}$ as a percentage.

b. What is the difference between $\frac{1}{2}$ and $\frac{9}{10}$ as a percentage?

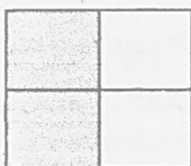
c. In a test Julie got 21 questions correct and 4 wrong. What was her percentage result?

d. A water tank holds 400 litres. If 120 litres leaked out, what percentage of water was left?

e. On a roll of 24 photos 6 did not come out. What percentage of photos was lost?

f. What percentage of the following rectangles is shaded?

i.



ii.



g. The ages of a class of Year 7 students are given.

For the class calculate the percentage of students who are:

- 11 years old
- 12 years old
- less than 13 years old

Age	Students
11	10
12	8
13	7

h. In this same class 3 students are left-handed. What percentage of the students are left-handed?

i. Match the following fractions with their equivalent percentages:

$\frac{1}{2}$	$\frac{9}{10}$	$\frac{2}{5}$	$\frac{7}{8}$	$\frac{2}{3}$	$\frac{5}{6}$
$87\frac{1}{2}\%$	50%	$66\frac{2}{3}\%$	90%	$83\frac{1}{3}\%$	40%

4. Calculate:

- | | | |
|---------------|-----------------|-----------------------------|
| a. 20% of 40 | e. 3% of 700 | i. 0.7% of 120 |
| b. 32% of 75 | f. 29% of 1100 | j. 37.5 of 24 |
| c. 45% of 120 | g. 15% of 13 | k. $2\frac{1}{2}\%$ of 34 |
| d. 60% of 85 | h. 1.8% of 4200 | l. $87\frac{1}{2}\%$ of 430 |

5. The most commonly occurring letters in the English language are:

E – 13% T – 9% A – 8%

In Vanuatu approximately 87% of people are right handed.

When the Year 8 students at Everage High School wrote an English essay, the total number of letters they used was 300 000.

- Find the approximate number of:
 - Letters written by right handed students
 - E's used
 - A's and T's written
- About how many A's were written by left-handed students?
- Port Vila has a population of about 30 000. Approximately how many left handed people live in Port Vila?