YEAR 8 MATHEMATICS WEEK 9 2020 (TERM 1)

Year: 8 Date: Monday 30 March 2020

STRAND: NUMBERS TOPIC: PERCENTAGE (%)

LESSON OUTCOME: At the end of this lesson student(s) should be able to calculate % of

Amounts.

Instructions: Hi dear Parents/Guardians and students - In this Lesson students are going to read through the lesson example below and do the selected questions for Exercise 3.21. Students are encouraged to spend 10 minutes going through the example before attempting the selected questions.

[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 3.21: Question 1 (Do: All)

Question 3 (Do: f, g, h)

Solutions: Solutions will be available online via

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

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Finding Percentages of Amounts

To find a percentage of a number, first write the percentage as a fraction or decimal.

Examples:

1.

Find 75% of 96 Fraction Method 75% of 96

$$= \frac{75}{100} \times \frac{96}{1}$$

"Of" means times.

Decimal Method 75% of 96

A tour bus carries 40 people. If 7.5% were Japanese and $72\frac{1}{2}$ % were ni-Vanuatu, find out how many were Japanese and ni-Vanuatu.

$$= \frac{7.5}{100} \times 40$$

ni-Vanuatu

$$72\frac{1}{2}\%$$
 of 40

$$= \frac{72\frac{1}{2}}{100} \times 40$$
$$= 0.725 \times 40$$

EXERCISE 3.21

1. Calculate:

			-	-
a	30%	Of	20	Ю

b. 25% of 40

c. 35% of 80

d. 20% of 130

e. 3.5% of 100

f. 22.5% of 50

g. 2.4% of 50

h. $4\frac{1}{2}\%$ of 70

i. $12\frac{3}{4}\%$ of 1200

i. 5.2% of 65

k. 10% of 900

I. 45% of 30

m. 80% of 60

n. 55% of 170

o. 2.4% of 200

p. 62.5% of 90

q. 3.9% of 20

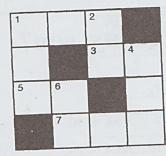
r. 2½% of 80

s. $11\frac{1}{2}\%$ of 3100

t. 7.8% of 30

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Copy and complete the following cross-number puzzle.



Ac	ross	Down		
1.	64% of 350	1.	25% of 876	
3.	48% of 200	2.	20% of 245	
5.	92% of 100	4.	33% of 2100	
7.	50% of 206	6.	20% of 105	

- 3. Read these questions carefully and then calculate the answers:
 - a. Josephine played 25 games of table tennis and won 60% of them. How many did she win?
 - b. In a group of 40 dancers, 20% were boys. How many boys were there?
 - c. A Leading Bank offers 7% interest per year for money invested. If I was to invest 12,000vt how much interest would I receive in one year?
 - d. A TV worth 45000vt is offered with a 10% discount for cash.

 Calculate the discount you would get.
 - e. An LP gas tank has a capacity of 40 litres. If it is 85% full, how many litres does it contain?
 - f. On a test worth 40 marks Angelo got 60%. How many questions did he get right?
 - g. In a group of 80 people, 95% have their own bank account. How many people don't have a bank account?
 - h. For the sentence 'Percentages are useful' find:
 - The percentage of vowels
 - ii. The percentage of consonants.