

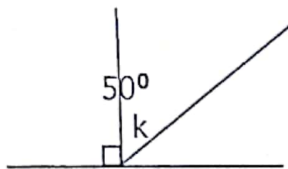
Standard Junior School-Zzana
P.7 Mathematics Homework
Term Three-Week three

Monday 25th September 2023

Name : _____

1. Write a set symbol for an empty set.

2. Find the value of k.



3. Workout 3×2 using a number line.

4. Expand 4932 using powers of ten.

5. Simplify: $\frac{0.4 \times 0.024}{0.12 \times 0.2}$

6. Solve the inequality and find the solution set.

$$-2y - 5 \leq 3$$

7. The table below shows how the rate at which different currencies were sold and bought in commercial banks during the months of June. Study and use it to answer the questions that follow.

Currency	Buying rate In ug. shs	Selling rate in ug. shs
1 US dollar (\$)	3700	3800
1 Euro (t)	4300	4500
1 Kenya shs. (Kshs)	24	25

(a) How many Euros did James get for Ugshs. 639,000?

(b) A tourist came from USA with 520 US dollars and exchanged for Kenya shillings, how much Kshs. did he get?

8. At St. Bethel training academy, the siren for females' roll call sounds after every 35 minutes while that of male trainee sounds after 45 minutes.

(a) After how many minutes do both sirens sound at the same time?

(b) If the sirens sounded together at 11:30 a.m. for the second time, at what time did they sound together for the first time?

9. Jacob drove his car from town K to town Y. If his car tyres have a diameter of 28 cm and moved 5000 revolutions to cover the distance between two towns. Find the distance between town K and town X in kilometres.

10. Henry and Tom buy and sell mangoes. One day each of them bought 500 mangoes at the same price. Tom sold each mango at shs.300 while Henry sold 5 mangoes at shs.2000. If Tom made a loss of shs. 20,000. How much profit did Henry make on each mango?

11.(a) Trees are planted in two diagonals. If the mango tree is the sixth from either side, how many trees are in the line.

(b) Trees are planted in rows and columns. If a mango tree is in the third row from either side of the fourth column, how many trees were planted?