

# THE 25 QUIZ...

P.7 WEEKLY PRACTICE

## \* MATHEMATICS \*

1) .Alexander went shopping and bought the following items,

- ❖ 2 books at sh.2,500 each.
- ❖ Each Kg of sugar costing sh.1800 and she bought  $2\frac{1}{2}$  kg
- ❖ 15 glasses at sh.800 each.

(a) If he had Sh. 25,000, Calculated his balance after paying for the items.

(b) As he was transporting them, some glasses got broken and sold the rest at sh. 1,200 each and at the end he got a profit of 10% on glasses. Find how many glasses got broken?

2) .Andrew bought the items in the table below from the shop, Study it carefully and answer the questions that follow.

a. Complete the table.

ITEM	Quantity	Price	Amount
Soap	_____ bars of soap	Sh. 4,500	Sh. 13,500
Bread	2 loaves.	Sh. _____	Sh. 11,000
Salt	$2\frac{1}{2}$ kg	Sh. 2,000	Sh. _____
Total			Sh. _____

b. If Kaka paid sh.26550, What was his percentage discount?

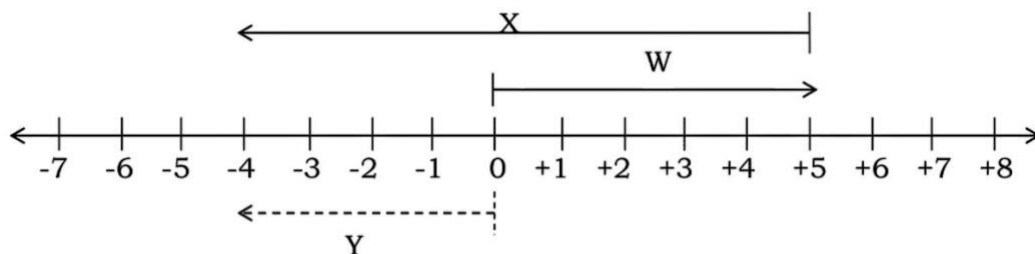
3) .(a) Solve  $(3x-4)-(x-6)=0$

(b) 3 girls shared a third of the cake equally and the boys shared the rest of it. If each boy got a sixth of the cake, how many children shared the cake?

4) .(a) Express 0.5454... as a common fraction.

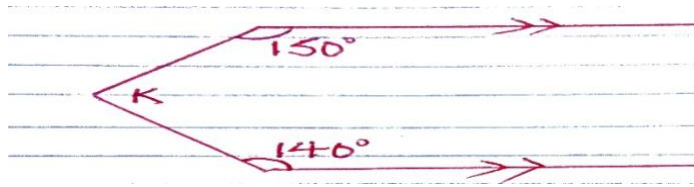
(c) Simplify;  $\frac{1.28-0.05}{0.08+0.28}$

- 5) .Three children Jolly, Joy, and Jotham shared a certain amount of money in the ratio of 3:4:respectively. If Jotham received sh.120,000 more than Jolly.
- (a) How much money was shared altogether.
- (b) How much more money did Joy receive than Jolly?
- 6) .At River Jordan Primary School there are two bells for Lower Primary and the other for Upper Primary which ring at intervals of 30 minutes and 40 minutes respectively to change lessons. If the two bells ring together at 11:00 am.
- At what time will they ring together again.
- 7) .The sum of the interior angles of a regular polygon is  $900^\circ$ .Name the polygon.
- 8) .Given the digits 4,0,6.
- a) Write all the possible 3-digit numbers that can be formed using all the above digits.
- b) Find the sum of the largest and the smallest 3-digit numbers formed in question 8(a) above.
- 9) .(a) The sum of three consecutive counting numbers is 24. If the first number is K. Find the value of K
- (b) The LCM of two numbers is 36 and their GCF is 6.Find the first number if the second number is 18.
- 10) Study the number line below carefully and use it to answer questions that follow.

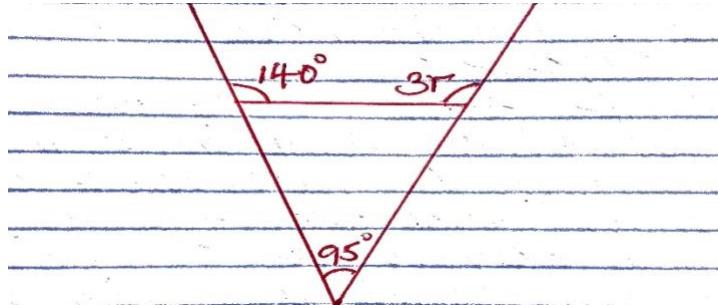


- a) Name the integers represented by;
- i. Y \_\_\_\_\_
- ii. X \_\_\_\_\_
- iii. W \_\_\_\_\_
- b) Write the mathematical statement for the above number line.
- 11) In a basket of 45 eggs 20% of them are bad eggs and the rest are good eggs

- (a) How many good eggs are in the basket?  
(b) Express the number of bad eggs as a fraction of all eggs in the lowest form.
- 12) At a stationary the cost of a pen is twice the cost of a pencil. The cost of a book is sh.1200 more than the cost of a pen. If Deborah paid sh. 900 for a pen and a pencil. How much will she pay for the two books.
- 13) In a year 2023, a total of 72 candidates sat for PLE of which 24 passed in division 1, 30 passed in division 3 and the rest in division 2.  
Represent the above information in a circle graph of radius radius 3.5 cm.
- 14) Matata covers a distance of 180 km at a speed of 60 km/hr. Calculate the minutes he will save if he travels at 80km/hr.
- 15) (a) Find the sum of the value of 2 and the place value of 5 in 23,568.  
(b) Round off 39.78 to the nearest tenths.
- 16) Tap A can fill the tank in 6 minutes and tap B can fill the same tank in 3 minutes.  
How long will both taps take to fill the tank if they are opened at the same time.
- 17) .(a) 8 men can complete a piece of work in 10 hours. How many hours will 20 men take to complete the same work at the same rate?  
(b) 5 books were sold at sh. 25,000.Find the cost of 7 similar books.
- 18) .(a) Calculate area of a trapezium whose two parallel sides are 6 cm and 13 cm with height of 8 cm and slanting side measuring 5 cm.  
(b) Find it's perimeter.
- 19) .Ten girls did the test and scored the following marks.  
60%,40%,60%,10% 65%,40%,60%,80%,70%,and 50%  
Find the;  
i. Range.  
ii. Median mark.  
iii. Mean mark.
- 20) .(a) Find the value of the angle marked K in the diagram below.



**(b) Find the size of the angle marked  $r$**



**21) .(a) Increase 500 by 20%**

**(b) When 1,000 is decreased by  $X\%$ , it becomes 900.**

**Find the value of  $X$ .**

**22) .The perimeter of a rectangular garden is 280 meters. The ratio of its length to its width is 5:2 respectively. Find the area of a rectangle.**

**23) .The interior angles of a rectangle are  $(K+15^\circ)$ ,  $45^\circ$ , and  $2K$ .**

**Find the value of  $K$ .**

**24) . (a) Convert  $80,000 \text{ cm}^2$  to  $\text{m}^2$**

**(b) How many litres are in 8400 millilitres.**

**25) A farmer borrowed money at a rate of  $12\frac{1}{2}\%$  Per year. After 2 years the interest of sh. 8000 was paid. How much did the farmer borrow?**