

CLASS 7 HOLIDAY HOMEWORK TERM 2 2020

MATHEMATICS

WEEK 1 - DAY 1

MONEY

1. A jacket was sold for sh 520. If the seller made a profit of 30%, how much was the buying price?
2. Chebet paid sh 425 for an item after getting a discount of sh 75. What percentage discount did she get?
3. A newspaper vendor sold 2000 newspapers each at sh 40. He was paid sh 2 per each newspaper as commission. What was the % commission?
4. The cash price is 20% less than its hire purchase price. Suba paid deposit of sh 7000 followed by 10 monthly equal instalments of sh 2100. How much was the cash price?
5. Alulu banked sh 15900 which earned interest at the rate of 10% p.a. How much interest did the money earn after 1 year and 9 months?
6. Mutuma sold a shirt for sh 180 and made a loss of 10%. For how much had he bought the shirt?

7. Mukuma bought:
3kg rice @ sh 210
2kg meat of for sh 720
2 loaves of bread @ sh 43
How much money did all the items cost her?

9. During a sale, 25% discount was allowed on all items. How much did a shirt cost if its marked price was sh 960?

8. The charges for sending a telegram were as follows:-
- 1st 10 words or less: sh 30
- Any additional words: sh 2.50
- A tax of 20% is charged on the total amount. How much would it cost to send the following telegram.

KID AT KENYATTA HOSPITAL
SEND CHEQUE FORTY
THOUSAND SHILLINGS
URGENTLUY NYABOKE

10. Japleting has sh 15,000 in her account. He deposited another sh 25000. The bank gave interest rate of 10% pa. How much money was in her account after 21 months?

WEEK 1 - DAY 2

11. Atieno bought an item for sh 6000.
She later sold it at a profit of $6\frac{2}{3}\%$.
What was her selling price?
12. Zeinab paid sh 5700 for a sewing machine after getting a 5% discount.
What was the marked price?
13. Agoi purchased a bicycle on hire purchase terms. He paid a deposit of sh 3000 and 10 equal montly instalments of sh 1200. Calculate the hire purchase price?
14. Kimeu bought $2\frac{1}{2}$ kg of meat at sh 360/kg. How much balance did he get from one thousand shilling note?
15. If the marked price of a short is sh 780 and the percentage profit is 15%, how much is the selling price of the short?
16. Buying price = sh 6400
Selling price = sh 7200
Profit = x % Profit = x
Loss = x % Loss = x

17. Principal = Sh 12000
Rate p.a. = 13%
Time = 2 years
Interest = x Amount = x

18. Cash price of HPP.
Deposit = sh 5000
TMI = sh 2000 @ 15 months
HPP = x

19. A trader bought 8 bags of cabbages at sh 1200. She paid sh 50 for transport for each bag. She repacked the cabbages with 12 smaller bags and sold each at sh 1000. What was her % profit?

20. The table below shows postal charges for sending small packages with a limit of 2kg.

Mass	Sh	Cts
Not over 100g	30	00
Not over 200g	40	00
Not over 250g	42	00
Not over 500g	45	00
Not over 1kg	50	00
Not over 2kg	55	00

Kang'ethe sent a parcel of mas 480g and another one 1.3kg. How much didi he pay altogether?

WEEK 1 - DAY 3

1. What is the place value of digit 3 in 47631?
2. What is the sum of the first 11 odd numbers?
3. What is the difference between the 4th and 7th multiples of 12?
4. Three bells ring at intervals of 12 mins, 14mins and 20 mins. After how long will they reing at the same time if they last rang togetehr at 11.35 am?
5. What is the value of $\frac{6^2 + 7^2}{5}$?
6. Place value of digit 0 in the number 29096.
7. What is the difference between the L.C.M and G.C.D of 18, 42 and 72?
8. Round off 148.894 to the nearest hundredths.

9. The number 49 in Roman numbers

10. Family A orders for meat after 2 days, Family B after 5 days, family C after 6 days and family D after 7 days. After how long will all the families order the meat on the same day?

WEEK 1 - DAY 4

Operation on Whole numbers

1. A party was attended by boys and girls. The number of boys was 2068 and taht of girls was 32 more than the number of boys. How many children were in the party altogether?

2. $36083 \div 12$

3. Find the value of: $12 \div 2 + 4 \times 6 - 2 \div 2 \times 5$

4. Work out: $\frac{15 \times 3 - 45}{20 - 3}$

5. In a school there are 300 pupils. Each is issued with three books @ sh 210. There are 12 streams. How much did the school spend on books in each stream?

8. Subtract $13\frac{3}{7}$ from $18\frac{1}{2}$.

6. By how much is $\frac{7}{9}$ more than $\frac{3}{11}$?

9. $10 - \frac{2}{7} - \frac{3}{4}$

7. Arrange the following fractions in descending order.

$$\frac{7}{15}, \frac{5}{6}, \frac{2}{3}, \frac{1}{6}$$

10. $5.4 - 0.0037$

WEEK 1 - DAY 5

11. $4.873 \div 11 =$

12. $\frac{50}{0.125}$

13. What is half the value of $\frac{0.2216}{0.004}$?

14. $\frac{5}{6}, 1\frac{1}{3}, 1\frac{5}{6}, 2\frac{1}{3}, \underline{\quad}, \underline{\quad}$

15. $2(4a + 5b) + 3(2a - 3b)$

PERCENTAGES

1. 16% of a number is 420. What is the number?
2. 60% of the pupils in a school are in upper primary. If there are 140 pupils in lower primary. How many pupils are there in the school altogether?
3. What is $17\frac{1}{2}$ of 640km?
4. Decrease 300ml by 20%
5. Increase 250kg by 10% and then decrease by 10%

WEEK 2 - DAY 1

6. After 20% of the cooking fat was used, 200kg still remained. How many kg of cooking fat was used up?

7. Write $\frac{1}{7}$ as a percentage.

8. Omete bought 15 goats. Three goats died and he sold the rest @ sh 3500 making a profit of 25%. How much did he pay for each goat?

9. Mrs. Njuguna bought a camera on hire purchase terms. She paid a deposit of sh 630 plus 10 months instalments of sh 287 each. What percentage of the total cost was the deposit?

10. In the 2004, Omwange harvested 2400 bags of maize. The following year, the harvest decreased to 1400 bags due to bad weather. What was the percentage decrease of the harvest?

FRACTIONS

1. An athlete started 25k marathon at 7.00am. After covering 172 km, she got an injury. How far away was she from the finish line?

2. Work out: $9\frac{1}{2} \div 23\frac{3}{4}$

3. Find the value of: $\frac{6\frac{6}{25} + 1\frac{13}{15}}{\frac{3}{5}}$

4. How many $\frac{2}{5}$ kg packets can be obtained from 30kg?

5. $\frac{2}{3} \div \frac{5}{9}$

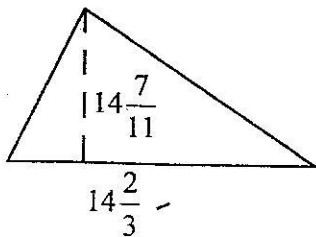
WEEK 2 DAY 2

6. $\frac{3}{4} + \frac{1}{2}$ of $1\frac{1}{2} - \frac{1}{5} \div \frac{4}{5} \times \frac{3}{5}$

7. $\frac{3}{5} \left(3\frac{1}{3} - 1\frac{4}{5} \right) \div 9\frac{1}{5} - \frac{3}{4} + 2\frac{3}{4}$

8. One day $\frac{1}{3}$ of the boys in a class were absent. A total of 14 pupils were absent that day. If 12 boys were present, how many girls were absent?

9. Find the area.



10. Work out half of $2\frac{3}{5} \times 5\frac{5}{6}$

11. $\frac{1}{3}$ of $\frac{7}{18}$ of $\frac{9}{28}$

14. $\frac{5}{8} + \frac{3}{5} + \frac{7}{10} =$

12. Subtract: $\frac{7}{25}$ from $14\frac{1}{5}$

15. Value of: $15\frac{3}{4}$ of $1\frac{11}{27}$?

13. $18\frac{3}{5} - 10\frac{1}{2}$

WEEK 2 - DAY 3

- $3.43 + 0.247 + 1.2$
- A milk vendor received 210.415l of milk in the morning, 105.53l in the afternoon and 67.139l in the evening. How many litres of milk did the vendor receive altogether?
- 3.06×0.4
- $15.67523 \div 0.007$
- A wheel has a radius of 1.4m. How many revolutions will it make to cover a distance of 2.904km.
- $\frac{1.5 + (1.6 \div 2) - 0.8}{1.2 - 1.0 + 0.4}$
- What is half the value of: $\frac{0.2216}{0.004}$?
- Chanzu's height is 1.212. Otieno is 1.041 taller. What is the product of their height?
- What is the value of 18.63×30.12 to the nearest tenths?
- Write 1000,267.026 in words.

WEEK 1 - DAY 3

11. $\sqrt{0.64 \times (0.4)^2}$

12.
$$\frac{0.8 + 1.2 \times 0.4 - 0.24}{0.04}$$

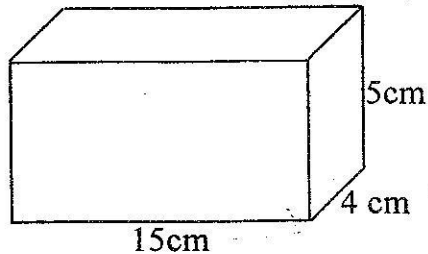
13. The average mass of six teachers and two students is 70.32 kg. What is their total mass in grams.

14. $4.873 \div 11$

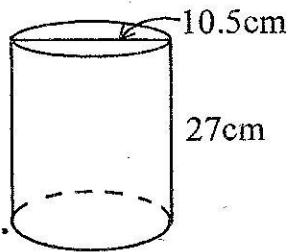
15. Find the total value of digit 5, in $2.85 + 1.5 \div 0.3$

VOLUME AND CAPACITY

1. Find the volume of figure below.



2. Find the volume.



3. The volume of a rectangle box is 576cm^3 . If the base area is 96cm^2 , what is the height of the box?
4. A rectangular tank measuring 15cm long, 20cm wide and 30cm high contains water up to a depth of 18cm. How many litres of water can be added to make the tank full?
5. What is the capacity of a cylindrical tin whose half diameter is 2.1m and height 14m when full?

WEEK 2 - DAY 5

6. How many litres of milk contained in a cube of side 10cm?

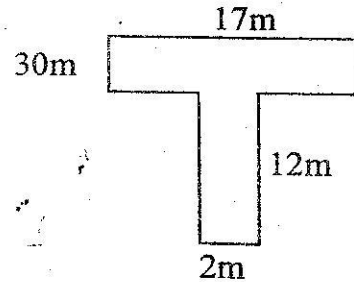
7. What is 20406034m^3 in litres?

8. The volume of cylindrical water tank is 68.75m^3 . Find the height if the radius is 10.5m?

9. A lorry is loaded with 185 cartons of mass 355g each. Each carton contains 65 packets each weighing 325g. Find the total load in kg?

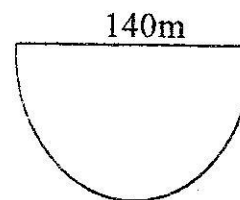
10. $8 \overline{)49\text{t } 68\text{kg } 32\text{g}}$

11. Find the perimeter.



12. A tea factory produced 265590 packets of tea leaves in one month. If each packet weight 500g waht was the total mass in tonnes?

13.



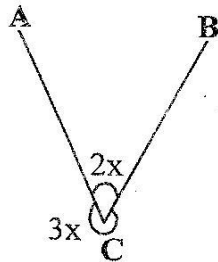
Find the circumference.

14. t kg g
 120 50 20
 + 60 70 30

15. What is the approximate mass of your teacher?
 A. 72kg B. 900gms
 C. 72g D. 900kg

WEEK 3 - DAY 1

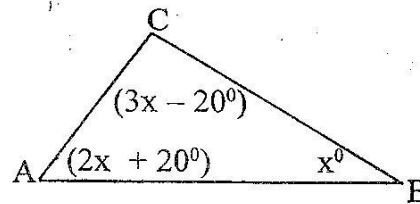
1.



Measure the interior of angle ACB.

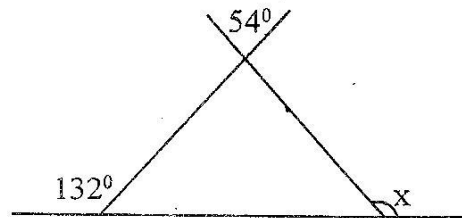
2. The following feature describes a quadrilateral.
 i) All sides are equal.
 ii) Diagonals are not equal.
 iii) Diagonals bisect each other at 90° .
 Which property is this? _____

3.



Find the difference between the largest and smallest.

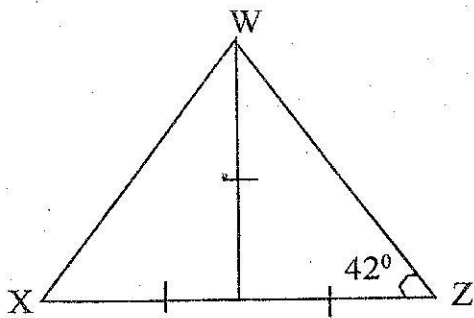
4. Find x



Teacher's Signature _____ Date _____

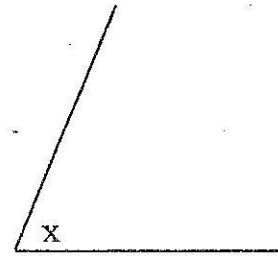
Parent's/Guardian's Signature _____ Date _____

5.



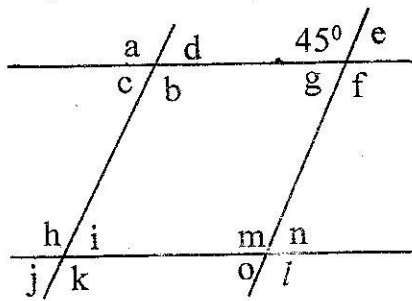
What is the measure of $\angle XWZ$?

7.



Measure angle x.

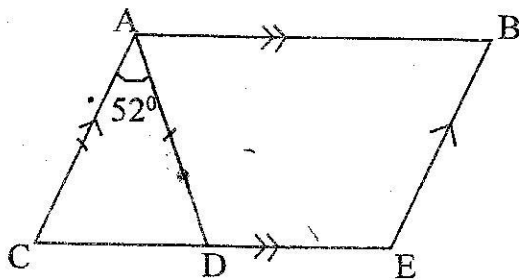
6.



Find the angles of the letters.

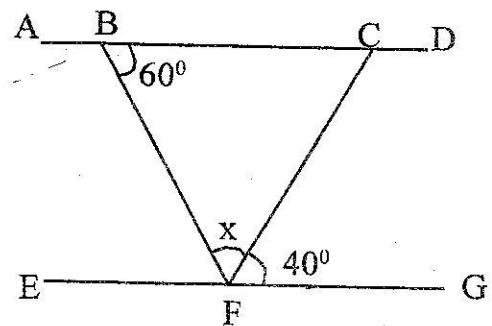
8. Construct triangle ABC where $AB = 5\text{cm}$, $\angle CAB = 40^\circ$ and $\angle ABC = 70^\circ$.
Measure BC.

9.



What is the size of $\angle DEB$?

10. What is the size of angle x ?



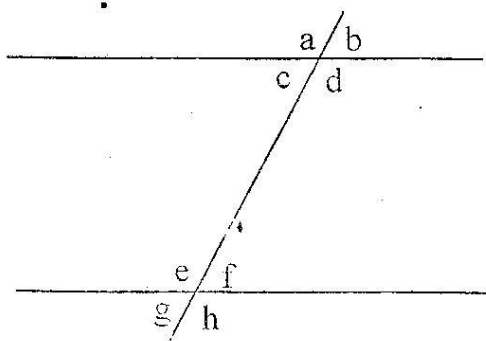
WEEK 3 - DAY 2

Using a ruler and a compass construct the following angles.

11. 45°

12. 60°

13.



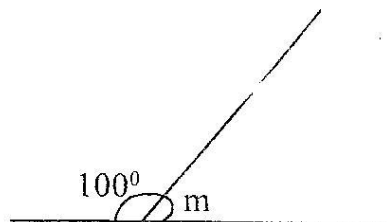
Angle $b = 45^\circ$.

What is the size of angle g ?

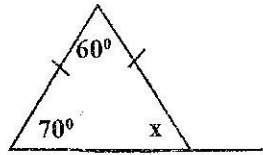
14. What is the complement of 60° ?

15. What is the supplementary of 30° ?

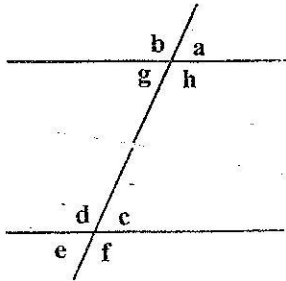
16. Calculate angle m .



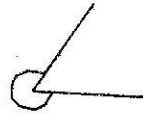
17. Find the value of x



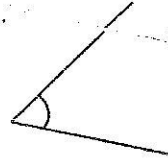
18. Name the alternate angles



19. Name the angle below.



20. Name the angle below.



WEEK 3 - DAY 3

Convert into minutes.

1. 3 hours

2. 2 hrs 30 mins

3. 5 hrs 24 mins

4. 1 hr 4 min

5. 90 sec

Convert to hrs

6. 240 mins

7. 150 mins

9. 45 min

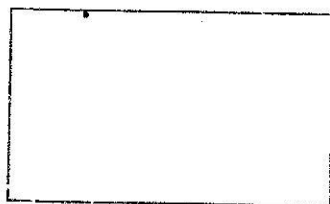
8. 12,600 sec

10. 10,800 sec

WEEK 3 - DAY 5

LENGTH, PERIMETER

1. In the figure below represents a rectangular plot of land.



12Dm 15dm

2Hm 130cm

What is the perimeter in metres?

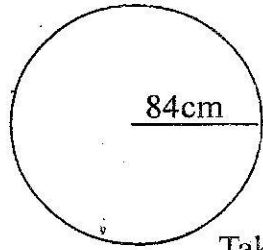
2. Km m cm

5 0 37

-2 197 32

3. Mutuku bought a rope 12m 87cm 5mm long. He cut the rope into 5 equal pieces. What was the length of each piece of rope.

4.

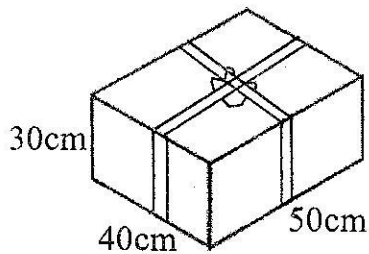


Take $(\pi = \frac{22}{7})$

Find the perimeter.

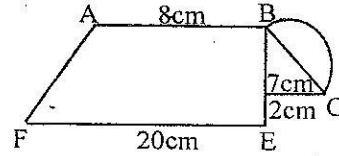
5. A goat was grazing. The rope was 22m long. What was the perimeter of the place grazed. ($\pi = 3.14$)

6.



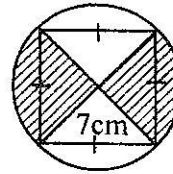
Chanzu's gift was packed as in the above diagram. If the string was tied all round twice leaving a knot of 45cm. What was the total length of the string used.

7.

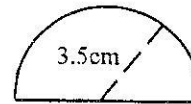


- The figure above is a quadrant and quarter of a circle. Find the distance round the figure.

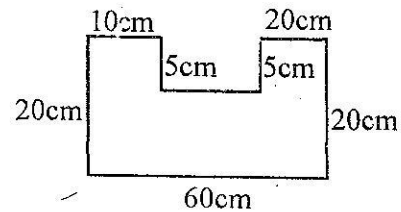
8. Find the area of the shaded part.



9. Find the difference between the perimeter and circumference.



10. Find the perimeter of the figure below.



check measurement