

CLASS 6 HOLIDAY HOMEWORK 2020

**Mathematics - Standard 6**

**WEEK 1 - DAY 1**

**DECIMALS**

1.  $24.7 - 15.32 - 6.98$

5.  $\frac{1}{2}$

2. What is the difference between 70.586 and 17.08?

6.  $\frac{3}{10}$

3.  $62.45 + 4.298 + 242.7$

7.  $\frac{1}{4}$

8. Ominde has 8.05 ha of land. He used 2.78 ha to plant trees and 1.85 ha to plant napier grass. What area of the land remained?

**Change to decimals**

4.  $\frac{7}{25}$

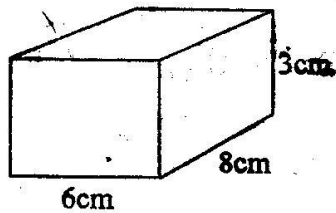
9.  $135 - 61.7543$

10. Tony posted parcels with the following masses 21kg, 40.12kg, 6.7kg, 5.003 kg and 18.815 kg. What is the total mass of parcels posted?

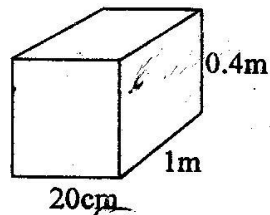
**WEEK 1 - DAY 2**

**VOLUME, CAPACITY AND MASS**

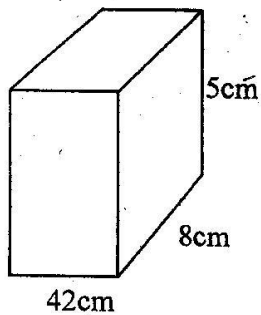
1. Find the volumes of:



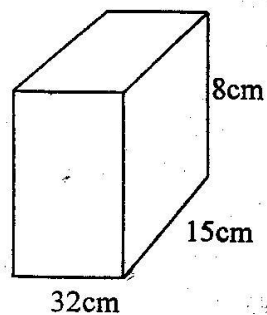
3.



2.



4.



Work out the following.

5.  $17\text{ l } 634\text{ ml} + 9\text{ l} + 81\text{ ml}$

6.  $25\text{ l } 930\text{ ml} - 16\text{ l} + 752\text{ ml}$

7.  $46\text{ l } 8\text{ dl } 32\text{ ml} - 12\text{ l } 6\text{ dl } 22\text{ ml}$

8.

$$9 \overline{) 534\text{ l } 7\text{ dl } 80\text{ ml}}$$

9.

$$6 \overline{) 8\text{ l } 3\text{ dl } 64\text{ ml}}$$

10.

$$187\text{ l } 6\text{ dl } 71\text{ ml} \times 3$$

Working Space

WEEK 1 - DAY 3

11.  $52\text{t } 926\text{kg } 384\text{g} + 8\text{t } 172\text{kg } 921\text{g}$

15.  $8 \overline{) 76\text{t } 870\text{kg } 432\text{g}}$

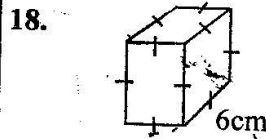
12.  $16\text{t} - 9\text{t } 99\text{kg } 9\text{g}$

16.    T    Kg    g  
      58 325 420  
      x            8  
      -----  
      -----

13.  $60\text{t } 600\text{kg } 600\text{g} \times 6$

17.    T    Kg    g  
      88 888 888  
      + 77 777 777  
      -----  
      -----

14. Divide  $40\text{t } 324\text{kg } 431\text{g}$  by 7



19.  $5 \overline{)3214} \text{dl } 35 \text{ml}$

20. L DL ML

24 6 42

$\begin{array}{r} x \phantom{00} \\ \hline 8 \phantom{00} \\ \hline \end{array}$

### WEEK 1 - DAY 4

#### Whole Numbers

1. What is the place value of digit 8 in the number 2,897,654?
2. What is the total value of digit 8 in the number 8,270,391?
3. Write forty nine million two hundred and four thousand four hundred and one in figures.
4. Round off the following numbers to the nearest thousand.  
376,789
5. What is the value of  $(22)^2 - (12)^2$ ?
6. What is the difference between 152 and the square of 25?
7. What is the value of  $\sqrt{576} + \sqrt{49}$ ?

8. If  $y^2 = 256$ , what is the value of  $y$ ?

10. A number is divisible by 8 if

9. What is the next number in the sequence 1, 4, 9, 25, 36, \_\_\_\_\_?

### WEEK 1 - DAY 5

#### Operations on whole numbers

1. Work out:

$$\begin{array}{r} 236240 \\ + 924869 \\ \hline \end{array}$$

3. Work out:  $468 \times 56$

2. In a polling station, there were 248360 registered voters. During the elections 123658 people voted. How many registered people did not vote?

4. Each child in a school of 904 children was given 15 textbooks. How many text books were given out altogether?

5. A politician gave out sh 84000 to be shared equally among 7 needy children. How much money did each child receive?

6. What is the L.C.M of 3 and 4?

7. Work out the G.C.D. of the following numbers 42, 35 and 28.

8. What is the greatest number that can divide 12, 36 and 48 without a remainder?

9. In a school, three bells ring at intervals of 6 minutes, 12 minutes and 18 minutes. After how many minutes will they ring together again?

10. What is the next number in the sequence? 10, 25, 50, 85, 130, \_\_\_?

### WEEK 2 - DAY 1

11. Fifteen cows, each weighing 450kg were transported in a lorry. What was the total mass of the cows?

12. A pupil wanted to add fractions  $\frac{5}{6}$ ,  $\frac{7}{8}$ ,  $\frac{3}{4}$  and  $\frac{3}{5}$ . What is the L.C.M of their denominators?

13. Find the G.C.D of 14, 28 and 56.

14. Multiply 9254 by 8.

---

15. Work out:  $6720 \div 21$

---

16. A city had 428632 women, 189930 men and 596720 children. How many people altogether are there in the city?

---

17. Subtract: 428638 from 921456.

18. What is the next number in the sequence?

5, 7, 10 15. 22, 33, \_\_\_\_\_?

---

19. A shelf in a cupboard holds 565 books. How many books can one cupboard hold if it has eight shelves?

---

20. A cement producing factory produced 482938 bags in the first week and 526374 bags in the second week. How many bags of cement did the factory produce in the two weeks?



## WEEK 2 - DAY 2

### Fractions

1. Work out:  $8\frac{3}{4} - 2\frac{2}{3}$

5.  $3\frac{3}{4} + 12 =$

2.  $2\frac{3}{5} \times 5\frac{5}{6}$

6.  $\sqrt{1\frac{7}{9}}$

3.  $8\frac{3}{4} \times 2\frac{2}{3} =$

7.  $\sqrt{2\frac{14}{25}}$

4.  $9\frac{2}{5} + 12 =$

8.  $1, 1\frac{1}{3}, 1\frac{2}{3}, 2, 2\frac{1}{3}, \underline{\hspace{2cm}}$

9.  $3\frac{3}{4} \times 7\frac{1}{12} =$

10. Which one is smaller:

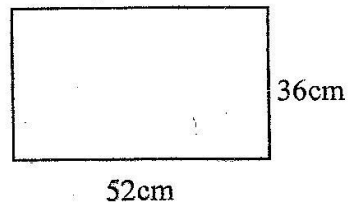
$3\frac{2}{3} \times \frac{1}{6}$  or  $2\frac{1}{4} \times \frac{3}{4}$ ?

### WEEK 2 - DAY 3

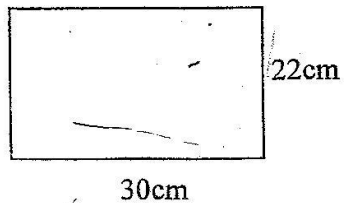
#### Measurement

1.    Km    M    Cm  
      3    940 48  
+    1    280 12  
-----  
-----

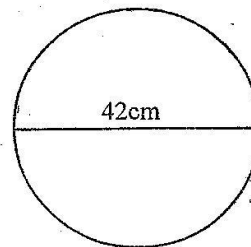
3. Find the perimeter



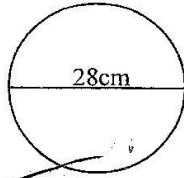
2. Find the perimeter of the figure below.



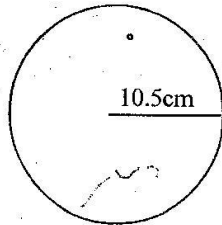
4. Circumference



5. Circumference

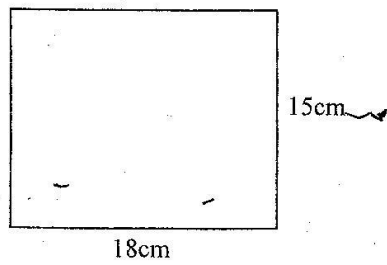


6. Circumference

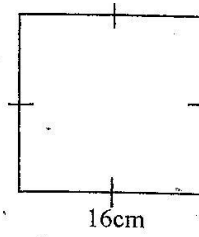


Calculate the area of the following:-

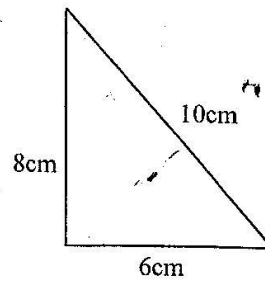
7.



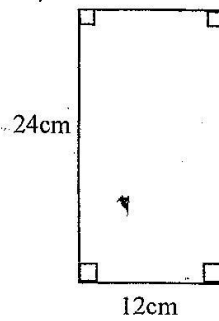
8.



9.



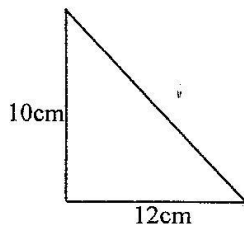
10.



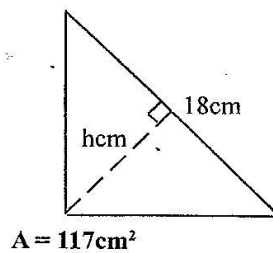
WEEK 2 - DAY 4

Calculate the area of the following:

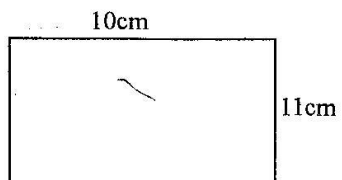
11.



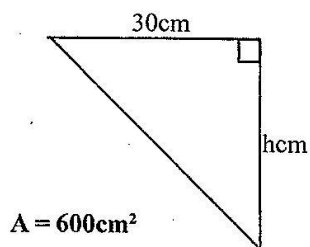
14.



12.

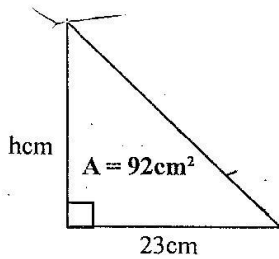


15.



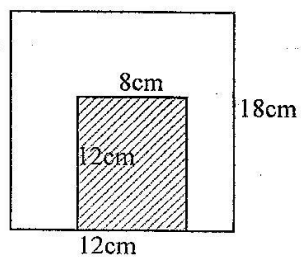
What is the height?

13.

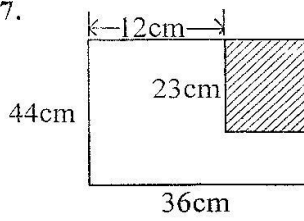


Area of shaded.

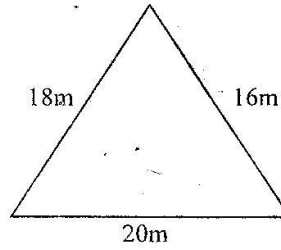
16.



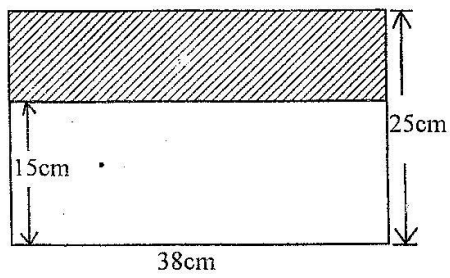
17.



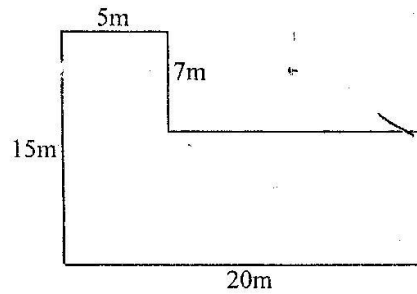
19. The figure below represents Sonko's field. if he ran 3 times. What distance did he cover?



18.



20. Perimeter of:



## WEEK 2 - DAY 5

### Percentage

1. Change  $\frac{7}{12}$  into percentage.
2. 16% of a number is 420. What is the number?
3. Micheal earns sh 12000. He spends 75% of his salary and saves the rest. How much does he save?
4. Job has 18 oranges, Juma has 12 more oranges than Job. Express Juma's oranges as a percent of the total?
5. Decrease 18 by 10%
6. One morning a shopkeeper had sh 750 in his cash box. By evening the amount had increased to sh 862.50. What was his percentage increase?
7. In a school 20% of the pupils are girls if 100 pupils are boys, how many pupils are in the school?

8. Increase sh 1000 by 1%

10. Write  $\frac{1}{4}$  as a percentage.

9. What is 75% of 800?

### WEEK 3 - DAY 1

#### Money

1. A shopkeeper bought 40 plates @ sh 65 each 10 got broken and she sold the remaining at sh 65. How much loss did he make?

2. Milly bought a radio at sh 2500 and later sold it making a profit of sh 800. What was the selling price?

<p>3. An item was bought at sh 120 and sold for sh 102. Calculate the percentage loss.</p>	<p>7. Joshua paid a bill of sh 750.50 using two sh 500 notes. How much more would he add the shopkeeper in order to receive a balance of sh 250?</p>
<p>4. A trader bought 300 apples for sh 4500. He sold them in piles of 6 at sh 100. What was the percentage profit.</p>	<p>8. If I bought 3 goats each at sh 2300 and three stools each at sh 650. How much balance di I get from 9 one thousand shilling notes?</p>
<p>5. Kimani sold a bed sheet at sh 770 making a profit of 10%. Calculate his buying price.</p>	<p>9. Odipo sold a suit for sh 7500 making a loss of 25%. At what price had he bought the suit?</p>
<p>6. A trader obtained a 25% profit after selling a radio for sh 750. At what price could he have sold to incur a loss of 15%?</p>	<p>10. Elijah bought 2kg of sugar @ sh. 74.50, 2½kg of emat at sh 80, and a bar of soap for sh 45.50. He paid his bill using two 200 shilling notes. What wa his balance?</p>



### WEEK 3 - DAY 2

11. If a businessman sells a carpet for sh 800, he makes a loss of 20% for how much should he sell the carpet to make a 30% profit?
12. Tawfiq bought a watch at sh 1200 and sold it a 10% profit what was his selling price?
13. Ongeru bought 10 bags of maize at sh 1500 each. Each bag had fifty 2kg containers. He sold each container at sh 25. What was his loss?
14. Njogu bought 60kg of cassava for sh 1530. He sold the cassava at sh 35 per kilogram. What was his profit?
15. Njeri bought 200 chicken whose average mass was 1.5kg the buying price per kg was sh 150. He sold each chicken for sh 300. What percentage profit to the nearest whole number did he make?

16. How much did Kiman pay for the following items?

$3\frac{3}{4}$  kg onions @ sh 43.60

$\frac{1}{2}$  kg salt @ sh 12 per kg

Two 2kg packets of cooking flour at sh 49.50 per kg

2kg cooking fat for sh 210

3 matchboxes for sh 12.15

19. A magazine distributor buys magazines from company at a price which is 20% less than the marked price. What profit will he make on a magazine whose marked price is sh 120?

17. Ahmed bought 40 oranges at sh 6 each. He spent sh 60 for transport. He gave 10 oranges to his children and sold the rest making a 40% profit for how much did he sell each orange?

20. Mwema bought

3 loaves of bread @ 27.50

4kg of meat @ sh 170

$3\frac{1}{2}$  kg of cooking fat @ sh 70

What was Mwema's bill?

18. A watch was bought for sh 400 and later sold for sh 800. What was half the profit?

## WEEK 3 - DAY 3

### Fractions

1. What is the value of  $\frac{8}{7} \times \frac{21}{32}$ ?

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

3.  $3\frac{9}{13} \times 2\frac{7}{16} \times 2\frac{4}{15}$

4. Work out:  $\frac{1}{3}$  of  $\frac{7}{18}$  of  $\frac{9}{28}$

5. What is the value of  $\frac{2}{3} \div \frac{5}{9}$

6.  $\frac{12}{25} \times \frac{15}{16}$

5  $\frac{3}{47}$ . Work out:  $9\frac{1}{2} \div 23\frac{3}{4}$

8. Work out:  $\left(\frac{7}{9}\right)^2$

9. Reciprcoal of  $1\frac{2}{5}$

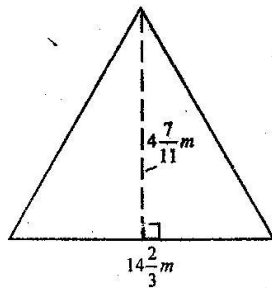
10. Convert  $11\frac{4}{5}$  into improper fraction and reciplicate.

**WEEK 3 - DAY 4**

11. Work out  $\left(5\frac{1}{2}\right)^2 + \left(2\frac{2}{3}\right)^2$

13. Square of  $3\frac{1}{7}$

12. Find area



14. Find the value of

$$\frac{6\frac{6}{25} + 1\frac{13}{15}}{\frac{3}{5}}$$

15. Reciprocal of  $5\frac{2}{13}$

16. Find the square root  $\sqrt{\frac{81}{16}}$

17. What is the value of

$$\frac{8\frac{4}{7} \div 3\frac{1}{3}}{36}$$

18. Reciprocate  $\frac{13}{7}$

19. Work out  $\frac{1}{7}$  of  $\left(\frac{4}{5} + \frac{1}{4}\right)$

20. Work out  $2\frac{1}{7} \times 1\frac{3}{4} \div \frac{3}{4}$

## WEEK 3 - DAY 5

1. Work out  $3\frac{1}{2} + 4\frac{1}{6} =$

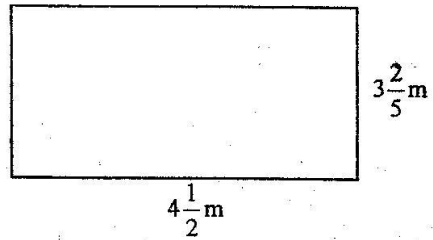
2. Multiply  $\frac{5}{6}$  by  $\frac{7}{8}$

3. Find square root of  $\frac{9}{16}$

4. Subtract:  $16\frac{1}{3} - 14\frac{1}{3}$

5. What is the reciprocal of  $2\frac{1}{5}$ .

6. Find the area of figure below.



7.  $\frac{3}{4} + \frac{1}{5}$

8. What is the next fraction in the sequence?

$$\frac{1}{3}, \frac{1}{9}, \frac{1}{27}$$

10. What is  $5\frac{3}{4}$  as improper fraction?

9. Arrange from smallest to the largest/

$$\frac{2}{3}, \frac{7}{8}, \frac{3}{4}, \frac{5}{6}$$

**Working Space**