REVISION SHEET FOR 2nd TERM EXAM ACADEMIC YEAR 2022-23

GRADE : 6 **Subject : MATHS**

(Q # 1) Choose the correct answer .

1. The pie chart shows the test grades of 30 students. Number of sectors are 10. Number of students for each sector = _____

   a) **30 ÷ 3** b) 30 × 3 c) 5 d) None

2. The sales of different types of coffee. Americano = 10 , Cappuccino = 8 , Latte = 12 , Mocha = 5 . Find the total number of coffees sold.

   a) 30 b) 25 c) **35** d) 40

3. If each sector represents 3 people, then for 12 sectors = ----------

   a) 12 b) **36** c) 15 d) 40

4. If x = 2 and y = 3, find the value of 4y (1 + x)

   a) 33 b) 35 c) 46 d) **36**

5. The perimeter of a rectangular field is 80m. If the field's length is 30m, what is its width?

   a) **10 m** b) 50 m c) 25 m d) 30 m

6. Which of these is not a square number ?

   (a) 9 (b) 196 (c) **30** (d) 16

7. Which of these numbers is not divisible by 3 ?

   (a) 1122 (b) **233** (c) 234 (d) 201

8. 3.6 tonnes in kg is …… and 1 km 5 m = …….

   (a) 36000 ; 105 m (c) **3600 ; 1005 m**

   (b) 0.0036 ; 15 m (d) 0.36 ; 150 m

9. 42 kg of rice is divided equally among 8 people. Each person gets ……..

   A bus holds 14 people. How many buses are needed to transport 189 people ?

   (a) 52.5 g ; 10 (b) **5250 g ; 14** (c) 525 g ; 12 (d) 525.25 g ; 13

10. 43 000 millilitres to litres _____ $5^2 + 6^2$ = _____

    a) 34 ; 41 b) 430 ; 11 c) 0.43 ; 11^2 d) **43 ; 61**

(Q # 2) Write True (T) or False (F).

1. A pie chart is a circle divided into sectors. **[True]**
2. If x = 2 and y = 3, the value of 5x – 2y is 12. **[False]**
3. The prime factors of 15 are 3 and 5 . **[True]**
4. The inverse of the square of a number is called its length. **[False]**
5. The angle of the sector shows the fraction of the total. **[True]**
6. A smaller unit used for capacity is millilitres. **[True]**
7. A prime number has more than two factors. **[False]**
8. Data can also be drawn as a bar-line graph. **[True]**
9. The solution to 17 – 2x = 7 is x = 10 **[False]**
10. The LCM of 6 and 8 is 24. **[False]**

(Q # 3) Fill in the blanks.

1. A **Scale** tells you the number of items each symbol represents.
2. Bar charts are sometimes called **bar graphs** or **block graphs** .
3. If 1 m^2 = 1 000 000 mm^2 then 2.7 m^2 = **2 700 000 mm^2**
4. If t = 8 , r = 3 and v = 2, the value of t + 2 r = **14**
5. 0.9 litres to millilitres = **900 ml**.
6. Total mass of 555g , 2.452g and 12 g = **3.019 g**
7. Change 5.6 km in **5600** metres.
8. $\sqrt{4900}$ = **70**
9. A number with exactly two different factors is called a **Prime** number.
10. The SI unit of length is **metre** .

(Q # 4) Match the following.

1. Common factors of 12 and 30	(A) 2 057 321 g **(4)**
2. $\sqrt{121} + \sqrt{64}$	(B) km, m, cm , mm **(5)**
3. Prime numbers between 70 and 80	(C) 1, 2, 3, 6 **(1)**
4. 2t + 57 kg + 321 g	(D) 2, 3 and 7 **(6)**
5. Units of length	(E) 19 **(2)**
6. Prime factors of 84	(F) 71 , 73 , 79 **(3)**
7. 4 ab + 7 – 2 ab – 2	(G) Pictogram **(8)**
8. Uses pictures or drawing to Represent discrete data	(H) 2 ab + 5 **(7)**

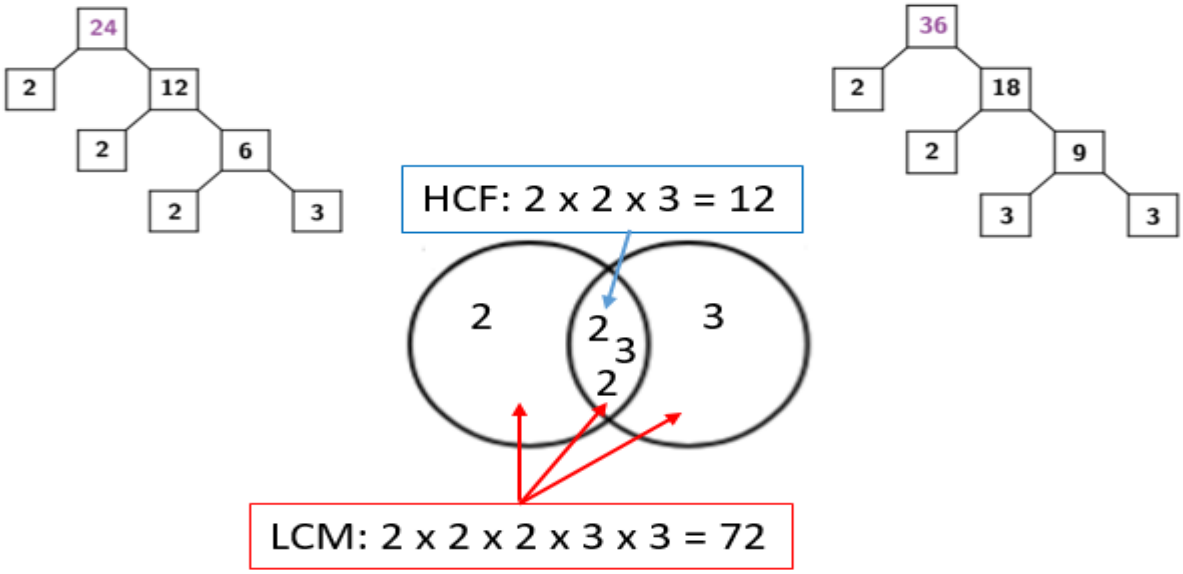
(Q # 5) Write one word for the following.

1. It is an equation relating different quantities. **Formula**
2. The inverse of the square of a number is called . **Square root**
3. It is a statement using algebra that contains an equals sign. **Equation**
4. How many minutes are there in a day ? **1440**
5. A number which has more than two different factors. **Composite**
6. A measurement of how much matter an object has. **Mass**
7. It is a type of measurement and measures how much liquid a container can hold. **Capacity**
8. A unit of measurement used to measure large amounts of liquid or the capacity of large containers. **Litre**

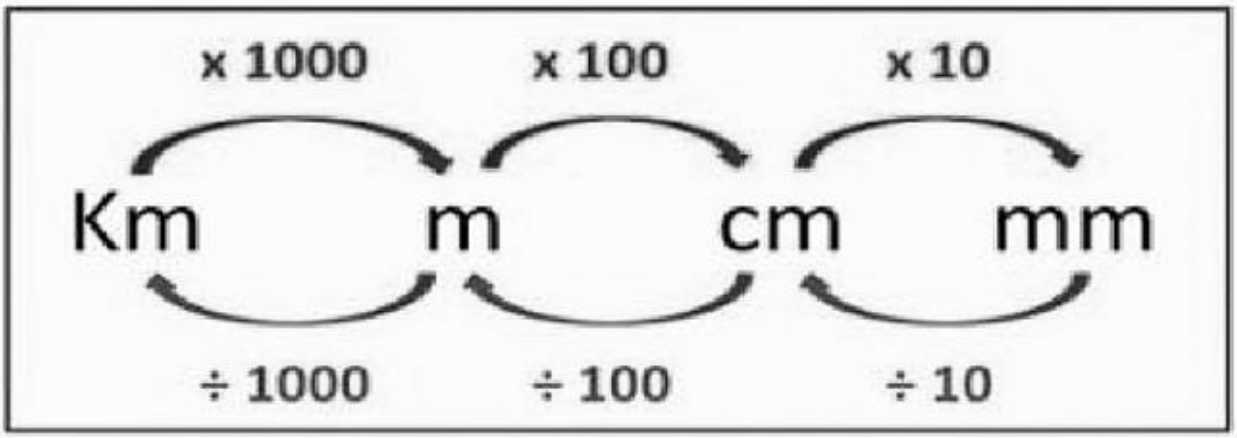
(Q # 6) Label the following.

HCF and LCM

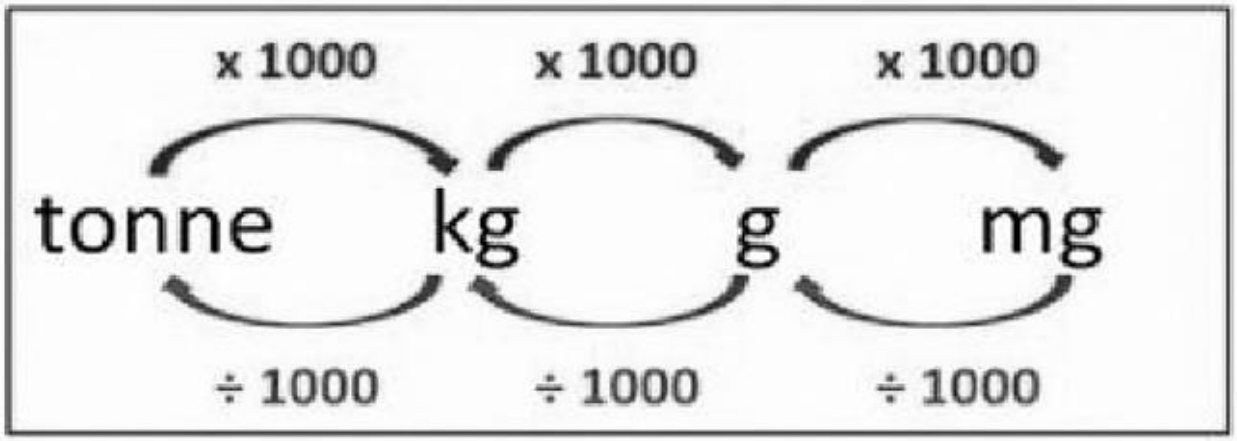
Find the HCF and LCM of 24 and 36



a. Converting units of length



b. Converting units of mass



(Q # 7) Solve the following.

1. Solve the equation : 2 (4 – y) – 3 (y + 3) = - 11

Ans.

$$2(4-y)-3(y+3)=-11$$
$$8-2y-3y-9=-11$$
$$-5y-1=-11$$
$$-5y-1+1=-11+1$$
$$-5y=-10$$
$$\frac{-5y}{-5}=\frac{-10}{-5}$$
$$y=2$$

2.

The table shows how 80 students travel to school.

Means of transport	Walk	Bus	Car	Bicycle
Number of students	40	20	10	10

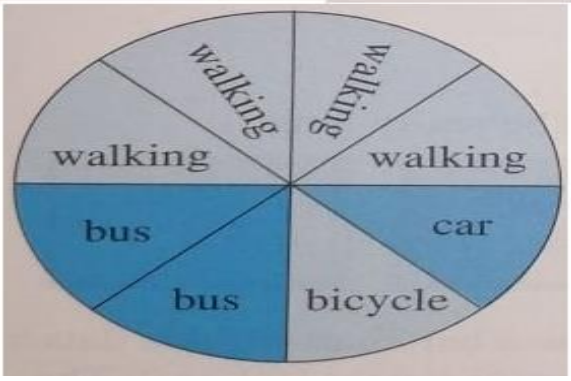
Draw a pie chart to show this information.

Fraction of students walking $= \frac{40}{80} = \frac{4}{8} = \frac{1}{2}$

Fraction of students coming by bus $= \frac{20}{80} = \frac{2}{8} = \frac{1}{4}$

Fraction of students coming by car $= \frac{10}{80} = \frac{1}{8}$

Fraction of students coming by bicycle $= \frac{10}{80} = \frac{1}{8}$



3. Solve these equations.

(a)	$\frac{p}{4} + 1 = 3$
Ans	$\frac{p}{4} + 1 = 3$ $\frac{p}{4} = 3 - 1 = 2$ $\frac{p}{4} = 2$ $p = 2 \times 4 = 8$

(b)	$-3x = 15$
Ans	$-3 \times x = 15$ $x = 15 / -3$ [$15 \div 3 = 5$] $x = -5$

4. Change a) 6 cm 5 mm to mm b) 6314 m to km

Ans.

a) 1 cm = 10 mm so 6 cm 5 mm = 6.5 cm = 6.5 × 10 mm = 65 mm	b) 1 km = 1000 m so 6314 m = 6314 ÷ 1000 km = 6.314 km

5.

Find **a** the HCF of 12 and 30
b the LCM of 3 and 4.

a Factors of 12 = **1**, **2**, **3**, 4, **6**, 12
Factors of 30 = **1**, **2**, **3**, 5, **6**, 10, 15, 30
HCF (highest common factor) = 6

b Multiples of 3 = 3, 6, 9, **12**, 15, 18, 21, **24**, ...
Multiples of 4 = 4, 8, **12**, 16, 20, **24**, 28, ...
LCM (lowest common multiple) = 12

6.

a	What is the total volume of Judy's Punch in i litres ii millilitres?	Judy's Punch 5 litres lemonade 1 litre of pineapple juice 500 ml of watermelon juice
b	A glass holds 100 ml. How many glasses can Judy fill from her punch bowl?	

(a) Ans.	5 litres + 1 litre + 500 ml (0.5 litre) (i) 6.5 litres (ii) 6.5 x 1000 = 6500 ml
(b) Ans.	One glass = 100 ml 6500 ml ÷ 100 ml = 65 glasses

7.

A shopping bag has a mass of 80 g. The bag contains two 1.5 kg bags of sugar and five 30 g packets of crisps. Find the total mass of the bag and its contents in

a grams **b** kilograms

a Total mass $= 80\,g + (2 \times 1500\,g) + (5 \times 30\,g)$
$= 80\,g + 3000\,g + 150\,g$
$= 3230\,g$

b Total mass $= 3230 \div 1000$
$= 3.23$ kg

8. a) Write down the first three multiples of 7.

b) What are the factors of 42 ?

Ans. (a) Multiples of 7 are 1 x 7 , 2 x 7 , 3 x 7 etc.

First three multiples of 7 are 7 , 14 , 21

(b) Factors of 42 = 1, 2, 3, 6, 7, 14, 21, 42

9. If x = 5 and y = 7 , find the value of

a) 2 x y b) 8 x – 2 y c) 3 y (11 – x)

Ans. a) 2 x y = 2 × 5 × 7

= 70

b) 8 x – 2 y = 8 × 5 – 2 × 7

= 40 – 14

= 26

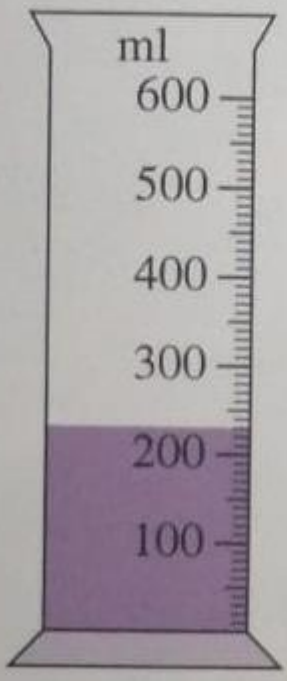
c) 3 y (11 – x) = 3 × 7 × (11 – 5)

= 3 × 7 × 6

= 126

10.

I add the water from this measuring cylinder to 4.1 litres of water.
How much water do I now have altogether?



Make the units the same

4.1 litres is 4100 ml

This scale says 230 ml

4100 + 230 = 4330 ml

or 4.33 litres

***** *Best of Luck* *****