G5 Revision 3

(1) Complete the following:

1) If $5 \in \{3, 2, x\}$, then $X =$ .....

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

3) $4\frac{1}{3}$ minutes = ... Seconds

4) $7.81 \times 1000 = 78.1 \times$ .....

5) $1\frac{1}{2} + 3\frac{2}{3} =$ .....

6) If $7 \in \{2, 5, x+3\}$, then $X =$ .....

7) If $y \subset X$ then $y \cap X =$ .....

8) If $X \subset Y$ then $X \cup Y =$ .....

9) $3\frac{1}{8} \cong$ ..... To the nearest hundredth

10) $42.5 + 6.148 =$ ..... $\cong$ ..... to the nearest $\frac{1}{10}$

11) 255 hours $\cong$ ..... days

12) The diameter length of the circle whose radius 4 cm is .....

13) The probability of the certain event is .....

14) The probability of the impossible event is .....

15) If the probability that a pupil passes en exam is $\frac{8}{10}$, then the probability that this pupil fails is .....

16) If $X \cup Y = \emptyset$, then each of X and y is .....

17) If $X \cup y = y$, then $X \cap y =$ .....

18) $\frac{3}{5} < \frac{x}{10} < \frac{4}{5}$, then $X =$ .....

19) If $\{a, 5\} = \{b, 3\}$, then a = ..., b = ...

20) $\{7, 6\} \cup \{7, 8, 9\} =$ .....

(Q3)

If $X = \{3, 4, 5\}$, $Y = \{2, 3, 4\}$,

Place the suitable symbol $\in$ or $\notin$ or $\subset$ or $\not\subset$ in the blanks.

① 2 ..... X ② $\{3, 5\}$ ..... $X \cap Y$

③ $\{3, 2\}$ ..... $X \cup Y$ ④ 5 ..... $X - Y$

⑤ $\varnothing$ ..... Y ⑥ $\{2, 3, 4\}$ X

(Q4)

a) The following table lists the number of 120 volunteers in 3 groups to make uniforms for cleaners.

Group	Distribution	Printing	Design
Number of volunteers	60	30	30

A volunteer has been randomly selected. What is the probability to be one of the printing groups?

b) A truck can hold **125** boxes of oranges at a time. How many times are needed to deliver **4375** boxes by that truck?

(Q5) Choose the correct answer from the parentheses:

1) If $\{2, 5, 7\} = \{5, A, 2\}$ then A = ... (2 , 5 , , 0)

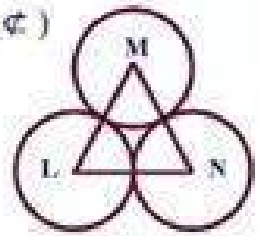
2) If A, B belong to the circle M where M $\in$ then is called a (chord – diameter – radius) in the circle.

3) $78.26 \div 10$ ..... 7.826×10 (> or = or <)

4) $\{5\} - \{1, 2, 5\}$ = ... ($\{5\}$, $\{1, 2\}$, $\varnothing$, $\{1, 2, 5\}$)

5) If $a \in X$ then a ..... X ($\in$, $\notin$, $\subset$, $\not\subset$)

6) In the opposite figure, If the length of each radius in the three circles is 3 cm, then the perimeter of the triangle LN = ... cm (6 – 9 – 18)



Draw a circle whose center is M and radius 2 cm then draw two radii $\overline{MX}$, $\overline{MY}$ and the included angle between them measures 60 then draw $\overline{XY}$ and find the length of $\overline{XY}$.

21) If $\{2,5,7\} \cap \{3,7,1\} =$ .....

22) The longest chord of the circle is .....

23) If $\frac{a}{7} = 1$, then a = ...

24) 4.5 ÷ ..... = 18

25) ..... ÷ 1000 = 8.31

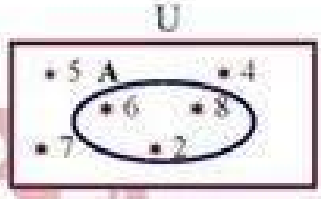
26) If $\{2,3\} - \{3,x\} = \varnothing$, then $X =$ .....

27) If $5 \notin \{1, x, 4\}$, then $Xx =$ .....

28) If $8 \in \{3, 2x, 5\}$, then $X =$ .....

29) 1.9 , 2.8 , 3.7 , ... , ...

30) In the opposite Venn diagram : A\ = ...



(2) Choose the correct answer:

1) 23.4359 ≅ ..... to the nearest thousandth. (23.44 , 23.436 , 23.4 , 23.43)

2) Number of altitudes of an obtuse angled triangle is ..... (0 , 1 , 2 , 3)

3) 345.6 cm ≅ ..... meter. (3 , 4 , 3.4 , 5)

4) $X \cap X' =$ ..... (X , X' , U , ∅)

5) 172 × 0.003 ..... 0.172 × 0.3 (< , > , =)

6) If $\frac{x}{8} = \frac{15}{24}$, then x = ... (3 , 5 , 4 , 12)

7) $3\frac{1}{8} \cong$ ..... To the nearest hundredth. (3.15 , 3.13 , 3 , 3.1)

8) If $M = \{5,2,3\} \cap \{1,5\}$, then M ..... {2} (∈ , ∉ , ⊂ , ⊄)

9) {2 , 11} ..... {set of odd numbers} (∈ , ∉ , ⊂ , ⊄)

10) 4 ..... {set of factors of 12} (∈ , ∉ , ⊂ , ⊄)

11) ∅ ..... {0}. (∈ , ∉ , ⊂ , ⊄)

12) The decimal which is included between 0.6 and 0.7 is ..... (0.71 , 0.59 , 0.61 , 0.72)

13) 19.45 × 100 = ... (0.1945 , 1945 , 1.945,194.5)

14) If $X \subset Y$ and $Y \subset X$, then ..... (X = Y , X , Y , X-Y = X)

15) 3 ..... {2,3} ∩ {2,4} (∈ , ∉ , ⊂ , ⊄)

G5 Revision 1

(Q1) Answer the following:

1) 65.3814 + 63.4027 = ... ≃ ..... (to the nearest $\frac{1}{1000}$)

2) 53.27 – 2.1 = ... ≃ ..... (to the nearest tenth)

3) (3.425 + 1.07) ÷ 2.8 = ... ≃ ..... (to the nearest hundredth)

4) 9.568 ÷ 9 = ... ≃ ..... (to the nearest whole number)

5) ..... ÷ 9 = 4.5

6) The chord of a circle is a line segment that connects .....

7) 2.9 ton = ... kg

8) A box contain 24 lamps, 3 lamps are defective. A lamp has been randomly selected, the probability of getting a functional lamp = ...

9) If $X = \{2, 3\}$, $Y = \{3, 5\}$, then $X \cap Y$ = ...

10) 254 hours ≃ ..... days

(Q2)

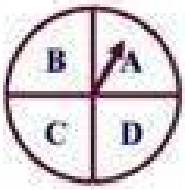
a) The area of a rectangle is 9.43 cm^2 and its width is 2.45 cm. **find** its length and approximate it to the nearest hundredth of centimeter.

b) **Compare:**

① 0.46 ÷ 4.6 ☐ 0.01 ② 17.17 × 1.7 ☐ 39

③ 53.7 ÷ 3.5 ☐ 5.37 ÷ 0.35 ④ 845 ÷ 4.9 ☐ (84.5 ÷ 49) × 0.1

c) **A spinner is divided into 4 equal sections.**



① What is the probability of spinning the letter B?

② Spin the spinner **400** times. What is the predicted number of getting letter A?

Answer the questions:

1) Rania made some juice. She gave $\frac{1}{4}$ of it to her neighbor and poured the rest equally into 9 bottles. What fraction of the juice did each bottle contain?
2) A teacher bought a piece of cloth 10.5 meters long to be distributed equally among excellent girls. She gave each girl a piece of 1.5 m . How many excellent girls are there?
3) If water is poured in a box at a rate of 1.45 liters each hour, calculate the amount of water poured in 4.8 hours?
4) Marwa had L.E. 60 she spent $\frac{1}{3}$ of her money on meat and $\frac{1}{4}$ of the money on vegetables. How much did she spend altogether?
5) In a school $\frac{2}{5}$ of the pupils are girls and 900 are boys. What is the total number of pupils in this school?
6) Find the area of the square whose side length is 4.06 m. to the nearest hundredth.
7) Hany has 30 pounds. He bought 12 cans, each for 1.85 pounds. What is the remainder with him?
8) A card is drawn at random from 10 cards numbers from 1 to 10 find the probability that the drawn card carries:
   - A prime number.
   - An even number greater than 6
   - A box contains cards numbered from 1 to 20 .if a card is drawn randomly , the probability that the card number is divisible by 6 ?
9) Draw the triangle ABC where AB = 7.5 cm. , BC = 10 cm. and CA = 8 cm. , draw the altitude from A to $\overline{BC}$ and measure its length.
10) Draw the triangle ABC in which: AB = 6 cm. , BC = 3 cm. and m($\angle B$) = 60° Measure the lengths of the altitudes of the triangle ABC
11) Draw a circle M of radius 3 cm. Draw the diameter $\overline{AB}$ and the chord $\overline{AC}$ of length 4 cm. Draw $\overline{BC}$ and find it's length

GOOD Luck

(Q3)

a) Draw a circle whose centre is **M** and radius is **2.5** cm. then draw its diameter $\overline{AB}$ and draw its chord $\overline{AC}$ of length **3** cm. Draw $\overline{BC}$ then find its length.

b) If **U** = {1, 2, 3, 4, 5, 6} , X = {2, 3, 5} and **Y** = {3, 4, 5} Represent the sets by Venn diagram. Then write each of the following by listing method:

a) $X \cup Y$

b) $X \cap Y$

c) $X - Y$

d) X'

c) Find the product of **58.62 × 35.2** and approximate it to the nearest hundredth.

(Q4) Choose the correct answer:

1) The number of subsets for the set {5} is ..... (0 , 1 , 2 , 3)

2) If M is a circle whose diameter is 8 cm where MA = 7 cm then the point A is located ..... the circle. (inside , outside , on)

3) 654 ÷ 76 = 6.54 ÷ ..... (76 ,0.76 , 7.6)

4) If $X \subset Y$ then $X \cap Y$ = ... (X , Y , ∅ , U)

5) ∅ ..... {0} (= , $\subset$, $\not\subset$, $\in$)

(Q5)

a) Draw the isosceles triangle ABC in which BC = 4 cm, and AB = AC = 6 cm Then, draw perpendicular segments from their vertices to their three sides.

b) The following table lists the results of a survey applied on 100 spectators of T.V

Program	*Football matches*	*News*	*Series*	*Foreign films*	*Arabic films*
Number of spectators	**36**	**10**	**15**	**20**	**19**

A spectator has been randomly selected. Find the probability of selecting a spectator prefers:

① Football matches ② Foreign films ③ Series ④ News