St Fatima Language Schools®
Al Hegaz

Primary 5

Second Term

Mathematics Worksheet

2023/2024

Supervisor of mathematics

Mrs. Maha Ahmed

Name : _____

Class : _____

Unit 7 Sheet 1

1) Use the multiplication chart to find like denominators.

Rewrite one or both fractions so they have the same denominator

X	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

a) $\frac{1}{4}$, $\frac{2}{3}$

b) $\frac{2}{5}$, $\frac{3}{6}$

c) $\frac{3}{8}$, $\frac{3}{4}$

d) $\frac{1}{6}$, $\frac{7}{8}$

2) Using the LCM Find the smallest like denominator for the fractions listed. Then, change each fraction so that each fraction is rewritten with the smallest like denominator.

a) $\frac{2}{3}$, $\frac{4}{9}$

b) $\frac{5}{6}$, $\frac{3}{8}$

c) $\frac{1}{4}$, $\frac{1}{5}$

d) $\frac{1}{10}$, $\frac{3}{4}$

3) Choose the right answer :

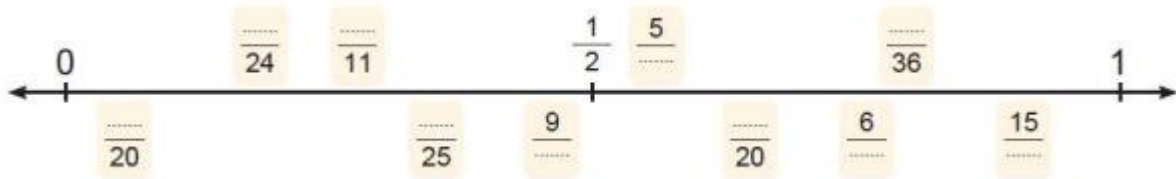a) The smallest like denominator for the two fractions $\frac{1}{6}$ and $\frac{4}{5}$ is ....

(30 , 6 , 5 , 12)

b) The fractions which have the same denominators and equivalents to the two fractions $\frac{3}{4}$ and $\frac{2}{3}$ are .... ($\frac{6}{12}$ and $\frac{8}{12}$ or $\frac{18}{24}$ and $\frac{16}{24}$ or $\frac{6}{8}$ and $\frac{4}{6}$ or $\frac{9}{12}$ and $\frac{10}{12}$)

c) .... is equivalent to the fraction $\frac{3}{7}$ and has like denominator as $\frac{8}{21}$

($\frac{9}{21}$, $\frac{3}{21}$, $\frac{17}{21}$, $\frac{8}{21}$)

1) <u>Use the benchmarks to complete each fraction along the number line.</u>

$$0 \quad \overline{24} \quad \overline{11} \quad \frac{1}{2} \quad \frac{5}{} \quad \overline{36} \quad 1$$

$$\overline{20} \qquad \overline{25} \quad \frac{9}{} \qquad \overline{20} \quad \frac{6}{} \quad \frac{15}{}$$

2) <u>Estimate the following fractions and then find the sum. Use the benchmark</u>
(0, $\frac{1}{2}$, 1) :

a) $\frac{5}{6} + \frac{1}{8} =$

b) $\frac{4}{10} + \frac{7}{10} =$

c) $\frac{1}{5} + \frac{7}{8} =$

d) $\frac{8}{10} - \frac{3}{5} =$

e) $\frac{5}{6} - \frac{7}{12} =$

f) $\frac{2}{3} - \frac{3}{5} =$

3) <u>Indicate whether the given estimate is an overestimate or an underestimate.</u>

a) $\frac{4}{5} + \frac{5}{6}$ is about 2   Overestimate   Underestimate

b) $\frac{7}{6} + \frac{8}{12}$ is about $1\frac{1}{2}$ Overestimate   Underestimate

c) $\frac{4}{9} - \frac{9}{10}$ is about $\frac{1}{2}$ Overestimate   Underestimate

d) $\frac{8}{12} - \frac{1}{9}$ is about 0   Overestimate   Underestimate

4) <u>Put true or false :</u>

a) $\frac{6}{7} + \frac{4}{10}$ is about $1\frac{1}{2}$ is overestimate   (   )

b) $\frac{7}{8}$ is closed to   1   (   )

c) $\frac{1}{3} + \frac{2}{5}$ is about 1 is underestimate   (   )

1) **Use the fraction wall to evaluate each sum or difference :**

a) $\dfrac{2}{5}$ $+$ $\dfrac{6}{10}$ $=$

b) $\dfrac{1}{2}$ $+$ $\dfrac{1}{3}$ $=$

c) $\dfrac{7}{10}$ $-$ $\dfrac{2}{5}$ $=$

d) $\dfrac{9}{12}$ $-$ $\dfrac{1}{6}$ $=$

2) <u>**Use the fraction wall to evaluate the following:**</u>

a) $\frac{3}{4} + \frac{1}{8} =$

b) $\frac{4}{6} + \frac{2}{3} =$

c) $\frac{7}{8} - \frac{1}{2} =$

d) $\frac{7}{9} - \frac{1}{3} =$

3) <u>**Choose the right answer :**</u>

a) $\frac{3}{4} - \frac{1}{2} =$ $(\quad \frac{2}{2} \quad , \quad \frac{1}{4} \quad , \quad \frac{5}{4} \quad , \quad \frac{4}{6} \quad)$

b) $\frac{6}{10} + \frac{1}{5} =$ $(\quad \frac{7}{15} \quad , \quad \frac{4}{10} \quad , \quad \frac{4}{5} \quad , \quad \frac{4}{6} \quad)$

c) The L.C.M for : $\frac{1}{3} , \frac{5}{9}$ is .... $(\quad 6 \ , 3 \ , 27 \ , 9 \ )$

d) Using the Benchmark the estimation of the sum of $\frac{5}{6}$ and $\frac{3}{7} =$ ....

$(\quad 1 \quad , \quad 0 \quad , \quad \frac{1}{2} \quad , \quad 1\frac{1}{2} \quad)$

4) Put true or false :

a) $\frac{5}{6} = \frac{8}{12} + \frac{1}{6}$ (   )

b) $\frac{5}{4} = \frac{3}{4} - \frac{3}{8}$ (   )

c) $\frac{8}{14}$ is closed to the benchmark $\frac{1}{2}$ (   )

d) $\frac{2}{5} + \frac{9}{10} = 1\frac{1}{2}$ is an overestimate   (   )

5) Ahmed ate $\frac{1}{2}$ a cake and Farah ate $\frac{1}{3}$ the cake

Find the remainder of this cake

....

....

....

Sheet 4

Solve using L.C.M :

a) $\frac{5}{7} + \frac{5}{14} =$

b) $\frac{3}{9} + \frac{2}{3} =$

c) $\frac{1}{3} + \frac{1}{2} + \frac{4}{8} =$

d) $\frac{3}{10} + \frac{1}{4} + 1 =$

e) $\frac{3}{8} - \frac{5}{16} =$

f) $\frac{15}{15} - \frac{2}{9} =$

g) $1 - \frac{2}{3} - \frac{1}{4} =$

Revision on unit 7

1) Choose the right answer :

a) $\frac{13}{16} + \frac{5}{6}$ = ...   ($\frac{1}{2}$, 1 , $\frac{2}{5}$, 2)

b) $\frac{3}{4} - \frac{3}{8}$ = ...   ($\frac{6}{8}$, $\frac{3}{8}$, $\frac{1}{4}$, $\frac{1}{2}$)

c) The smallest like denominator of $\frac{3}{4}$ and $\frac{4}{5}$ is .... (20 , 10 , 40 , 12   )

d) $\frac{5}{12} + \frac{1}{4}$ .... $\frac{1}{3} + \frac{1}{4}$ (< , > , =)

e) Which of the following is overestimate ?

- $\frac{8}{7} + \frac{5}{9} = 1\frac{1}{2}$

- $\frac{4}{7} + \frac{3}{5} = 1$

- $\frac{1}{6} + \frac{6}{11} = \frac{1}{2}$

- $\frac{4}{9} + \frac{3}{7} = 1$

2) Complete :

a) $1 + \dfrac{2}{3} + \dfrac{2}{15} =$ ....

b) The simplest form of : $\dfrac{15}{27}$ is ....

c) Estimate the sum of $\dfrac{1}{7} + \dfrac{7}{8}$ using the benchmark = ...

d) $\dfrac{7}{14} + e = 1$, then e = ...

e) $\dfrac{9}{108} = \dfrac{1}{\text{.........}}$

3) Use the fraction wall to evaluate each sum or difference :

a) $\dfrac{1}{2} + \dfrac{1}{4} =$ ....

$\frac{1}{2}$		$\frac{1}{2}$	
$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$

b) $\dfrac{3}{5} - \dfrac{1}{2} =$ ....

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

$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$

Find :

a) $5\frac{1}{2} + 7\frac{1}{4} = $ ....

b) $\frac{1}{2} + \frac{1}{8} = $ ....

c) $\frac{9}{10} - \frac{1}{2} = $ ....

d) $12\frac{1}{8} - 3\frac{1}{2} = $ ....

e) $4 - 1\frac{3}{4} = $ ....

f) $\frac{7}{20} - a = \frac{1}{10}$, then a = ...

g) $K - 2\frac{3}{5} = 4\frac{7}{40}$, then k = ...

h) $Y + 4\frac{3}{7} = 8\frac{1}{21}$, then y = ...

Sheet 2

1) Rewrite the given mixed numbers with like denominators in two different ways.

	First rewrite	Second rewrite
$3\frac{1}{4}$ and $2\frac{3}{8}$	.... and	.... and ....
$6\frac{2}{7}$ and $1\frac{5}{21}$	.... and	.... and ....
$1\frac{20}{45}$ and $2\frac{5}{18}$	.... and	.... and ....
$2\frac{3}{12}$ and $4\frac{5}{24}$	.... and	.... and ....

2) Place the fractions and mixed numbers along the number line
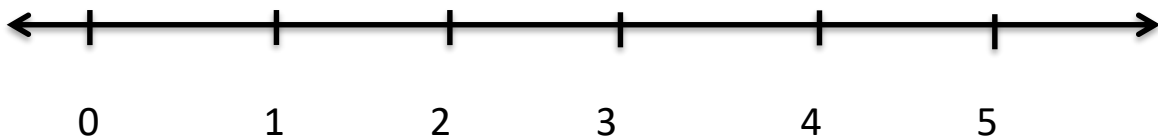
$$1\frac{3}{5} \quad , \quad \frac{1}{7} \quad , \quad 4\frac{9}{22} \quad , \quad 3\frac{2}{35} \, , \, 2\frac{7}{16}$$

1) Use the model to find :

a) $2\frac{1}{2} + 1\frac{5}{8} =$

b) $4\frac{7}{10} - 1\frac{3}{5} =$

2) Use the number line to find :

$7\frac{3}{8} - 2\frac{1}{4} =$

3) Choose the right answer :

a) $\frac{9}{10} - \frac{1}{2} = $ ....   ($\frac{2}{5}$, $\frac{7}{10}$, $\frac{8}{10}$, 1)

b) $7\frac{3}{9} = $ ....   ($\frac{62}{9}$, $\frac{66}{9}$, $\frac{55}{9}$, $\frac{69}{9}$)

c) $\frac{2}{3} + \frac{1}{4} = $ ....   ($\frac{3}{7}$, $\frac{3}{12}$, $\frac{10}{12}$, $\frac{11}{12}$)

d) $4 - 1\frac{3}{4} = $ ....   ($2\frac{1}{4}$, $2\frac{3}{4}$, $3\frac{1}{4}$, $5\frac{1}{4}$)

e) $2\frac{1}{3} - 1\frac{1}{4} = $ ....   ($3\frac{2}{7}$, $3\frac{7}{12}$, $1\frac{1}{12}$, $1\frac{1}{7}$)

f) $2\frac{3}{5} + 1\frac{1}{4} = $ ....   ($3\frac{4}{9}$, $3\frac{7}{9}$, $\frac{7}{9}$, $3\frac{17}{20}$)

g) $\frac{1}{2} - \frac{1}{3} = $ ....   ($\frac{1}{6}$, $\frac{2}{5}$, $\frac{0}{5}$, $\frac{0}{6}$)

4) Azza bought a trouser for L.E $39\frac{1}{2}$, a shirt for $102\frac{2}{5}$ L.E , a shoes for $215\ \frac{1}{4}$ L.E
How much money did Azza pay ?

....

....

-15-

Sheet 4

1) Estimate one possible value for x :

a) $5\frac{x}{24}$ is slightly greater than $5\frac{1}{4}$

....

b) $3\frac{x}{10}$ is about $3\frac{72}{100}$

....

c) $11\frac{9}{x}$ is a little greater than 11

....

d) $21\frac{20}{x}$ is a little less than 22

....

e) $4\frac{x}{8}$ is almost 5

....

f) $8\frac{1}{4}$ is nearly $8\frac{x}{20}$

....

Revision on unit 8

1) Choose the right answer :

a) If $2\frac{1}{4} - n = \frac{3}{4}$, then n = ………………..   (2 , $\frac{3}{4}$, 3 , $1\frac{1}{2}$)

b) If $3\frac{1}{7} = 2\frac{x}{7}$ by regrouping , then x = …………….   (1 , 2 , 3 , 8)

c) If $9\frac{m}{5}$ is little greater than $9\frac{1}{2}$, then m is estimated ……………..   (3 , 5 , 2 , 1)

d) $3\frac{2}{3}$ and $5\frac{1}{6}$ wit like denominators are ………………..

($3\frac{2}{3}$ and $5\frac{1}{6}$ or $\frac{11}{3}$ and $\frac{31}{3}$ or $3\frac{4}{6}$ and $5\frac{1}{6}$ or $3\frac{2}{3}$ and $5\frac{2}{6}$)

2) Complete :

a) $\frac{1}{5}$ minute = ……………………………. seconds

b) 200 minutes = …………………………..hours

c) $7\frac{2}{3}$ + $1\frac{5}{6}$ is estimated as ……………………. + ……………………

d) If $\frac{23}{5}$ is equivalent to $m\frac{3}{5}$, then m = …………………………………..

e) $5\frac{4}{9}$ + $3\frac{3}{4}$ = …………………………………………

3) Complete :

$$+ \frac{1}{5}$$

$2\frac{1}{2}$

$1\frac{3}{10}$

$\frac{8}{10}$

....

....

....

The sum of these numbers = ...
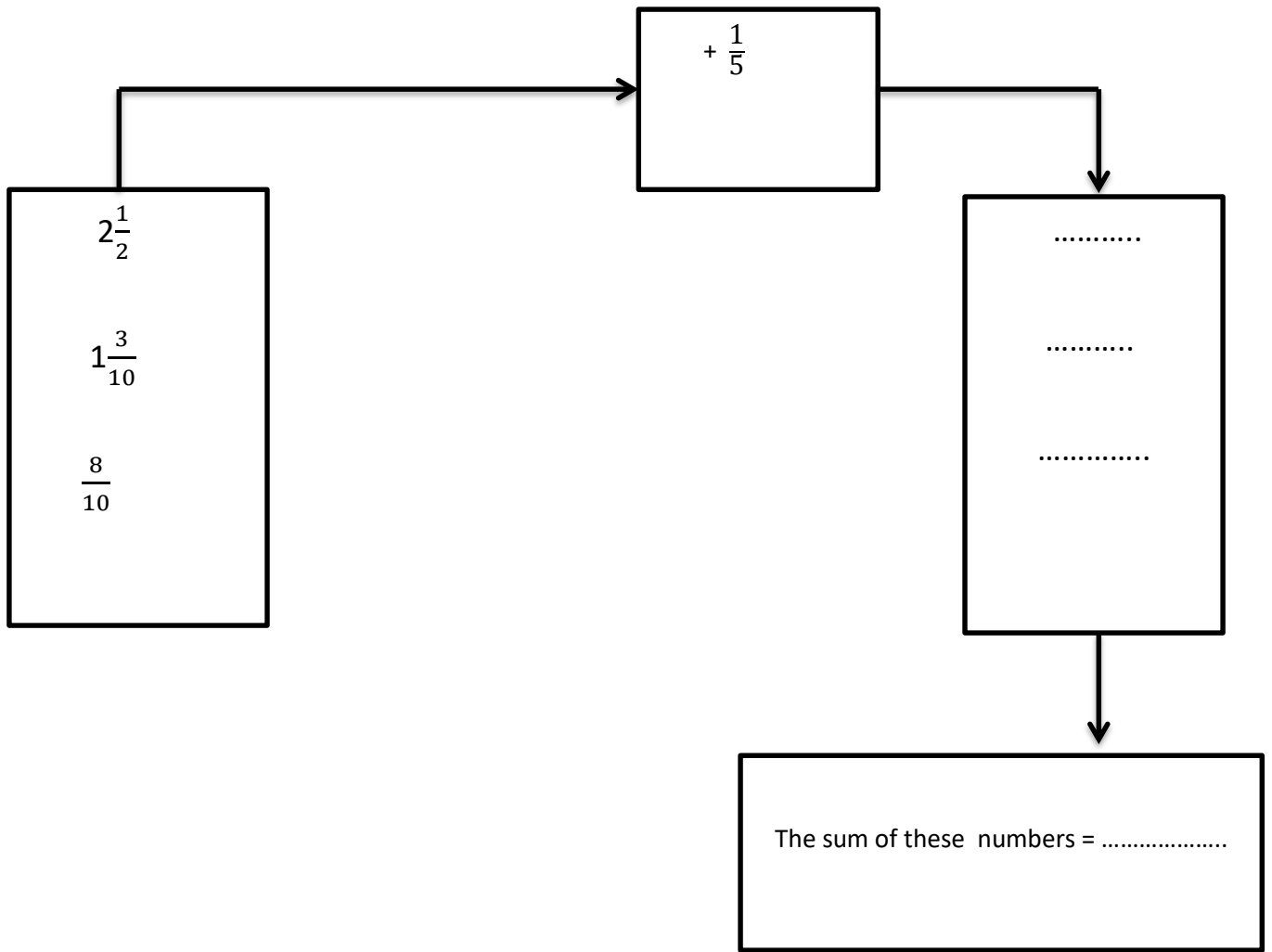
4) Mona collected $10\frac{3}{18}$ Kg of milk , she gave her brother $3\frac{5}{6}$ k, how many kg are left?

....

....

Unit 9 Sheet 1

1) Multiply and find the answer is simplest form :

a) $\frac{3}{7}$ x 21 =.....................

b) 8 x $\frac{2}{16}$ = ...

c) $\frac{5}{27}$ x 9 = ...

d) $\frac{3}{5}$ x $\frac{15}{18}$ = ...

e) $\frac{16}{48}$ x $\frac{12}{24}$ = ...

f) $\frac{10}{33}$ x $\frac{12}{100}$ = ...

g) $\frac{6}{72}$ x $2\frac{1}{4}$ = ...

h) $1\frac{3}{4}$ x $\frac{4}{5}$ = ...

i) $\frac{4}{24}$ x $5\frac{3}{4}$ = ...

j) $7\frac{1}{3}$ x3 $\frac{1}{4}$ = ...

k) $3\frac{1}{2}$ x $\frac{4}{7}$ = ...

2) Use the Distributive Property of Multiplication to find each product. Simplify your answers, if possible.

a) $3\frac{5}{8}$ x $4\frac{2}{3}$ =

(..................... + ...) x (..................... + ...)

(..................... x ....) + (..................... x ....)

(..................... x ....) + (..................... x ....)

b) $1\frac{1}{7}$ x $5\frac{3}{5}$ =

(..................... + ...) x (..................... + ...)

(..................... x ....) + (..................... x ....)

(..................... x ....) + (..................... x ....)

1) <u>Find</u> :

a) $9 \div 4 =$ ....

b) $10 \div 7 =$ ....

c) $17 \div 6 =$ ....

d) $\frac{1}{4} \div 2 =$ ....

e) $\frac{15}{8} \div 3 =$ ....

f) $10 \div \frac{3}{5} =$ ....

2) <u>Find the missing</u> :

a) $\frac{1}{8} \times$ .... $= \frac{2}{24}$

b) $\frac{3}{9} \times$ .... $= \frac{9}{18}$

c) .... $\times \frac{1}{10} = \frac{7}{100}$

d) $\frac{5}{12} \div$ .... $= \frac{1}{2}$

e) .... $\div \frac{3}{20} = \frac{5}{6}$

Sheet 3

1) Choose the right answer :

a) $\frac{1}{3}$ x 12 = ...   ($\frac{1}{36}$, 36 , 4 , 12)

b) $\frac{3}{5}$ x $\frac{5}{6}$ = ...   ($\frac{1}{2}$, $\frac{18}{25}$, $\frac{8}{11}$, $\frac{8}{30}$)

c) $\frac{1}{4}$ x $\frac{2}{3}$ x $\frac{2}{5}$ = ...   ($\frac{1}{5}$, $\frac{1}{10}$, $\frac{1}{15}$, $\frac{6}{15}$)

d) 15 x $\frac{6}{12}$ x $\frac{2}{3}$ = ...   (5 , $\frac{2}{5}$, $\frac{12}{36}$, $\frac{30}{12}$)

e) $\frac{1}{6}$ ÷ $\frac{2}{3}$ = ...   (4 , $\frac{2}{18}$, $\frac{2}{9}$, $\frac{1}{4}$)

f) $\frac{2}{7}$ ÷ $\frac{4}{21}$ = ...   ($\frac{8}{147}$, $\frac{3}{2}$, $\frac{2}{3}$, $\frac{4}{7}$)

g) 12 ÷ $\frac{5}{6}$ = ...   ($\frac{72}{5}$, $\frac{60}{5}$, $\frac{2}{5}$, 10)

h) $\frac{5}{4}$ ÷ 2 = ...   ($\frac{8}{5}$, $\frac{5}{8}$, $\frac{8}{10}$, $\frac{10}{4}$)

i) A class has 45 pupils , $\frac{2}{3}$ of them are boys and the rest are girls , then the number of girls is ....   (30 , 20 , 15 , 10)

Sheet 4

1) <u>**Put true or false :**</u>

a) $9 - 1\frac{1}{5} = 8\frac{4}{5}$ ( )

b) $\frac{2}{7} \div \frac{4}{21} = \frac{3}{2}$ ( )

c) $\frac{3}{5} \times \frac{5}{6} = \frac{1}{2}$ ( )

d) $1\frac{7}{8} \div \frac{15}{8} = 1$ ( )

e) $\frac{5}{7} + \frac{3}{14} = \frac{13}{17}$ ( )

2) <u>**Match**</u> :

a) $\frac{1}{2} >$ 1

b) $7\frac{3}{5} - 6\frac{4}{10}$ $\frac{1}{49}$

c) Half of $\frac{7}{4}$ $\frac{7}{8}$

d) $\frac{7}{6} \div 1\frac{1}{6}$ $1\frac{1}{5}$

$\frac{2}{5}$

Revision on unit 9

1) Choose the right answer :

a) $2\frac{1}{4} \times 4 = $ ....   (9 ,   10 , $9\frac{1}{2}$, $8\frac{1}{4}$)

b) $7\frac{1}{7} \times \frac{9}{8}$ ....$7\frac{1}{7}$ (< ,   > ,   =   )

c) $1\frac{1}{3} \times 1\frac{1}{4} = $ ....   ($1\frac{2}{3}$, $2\frac{1}{7}$, $2\frac{1}{12}$, $1\frac{1}{12}$)

d) $\frac{5}{6} \div 5 = $ ....   ($\frac{1}{6}$, $\frac{1}{5}$, $\frac{25}{6}$, $12\frac{1}{2}$)

e) $\frac{2}{7} \div \frac{4}{21} = \frac{3}{2}$ (true , false   )

2) Complete :

a) $\frac{3}{....} \times \frac{5}{8} = \frac{15}{56}$

b) $25 \div 6 = 2\frac{1}{2} \times 1\frac{........}{3}$

c) If we divide 9 apples among 5 persons , then each person will have ....

    apples

d) .... $\times \frac{3}{5} = \frac{6}{15}$

e) If $6 \div a = 30$, then a = ...

Unit 10

Geometry

Point : the exact location in space represented by a dot (**.**)

Line : a set of connected points continuing without end in both directions (⟷)

 Line segment : a part of a line with two endpoints   (⎯⎯)

Ray : a part of a line that has one endpoint and goes on forever in one direction

  (⟶   )

Polygon : a closed two- dimensional shape with 3 or more sides (▲ , ▬

, …………….)

Intersecting lines :   lines that cross at a point   (✕)
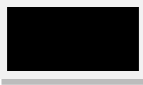
Parallel lines : lines that are always the same distance apart

                        They do not intersect   (⇄   )

Perpendicular lines : two intersecting lines that form right angles   (✛)

Line of symmetry : A line that divides figure into two congruent halves that are mirror images of each other

Congruent : having exactly the same size and shape

Figure	Name	Number of sides
	Triangle	3
	Quadrilateral	4
	Pentagon	5
	Hexagon	6
	Heptagon	7
	Octagon	8

The figure	The number of lines of symmetry
Parallelogram	0
Trapezium	0
Scalene triangle	0
Isosceles triangle	1
Rectangle	2
Equilateral triangle	3
Square	4
Circle	Infinite

Angle   : two rays that share an endpoint

Measure angle : The measure of the size of an angle. It tells how far one side is turned from the other side. A one degree angle turns through $\frac{1}{360}$ of a full circle

Degree (angle measure) : A unit for measuring angles. It is based on dividing one complete circle into 360 equal parts. A one degree angle = $\frac{1}{360}$ of a circle.

Protractor : A tool used to measure and draw angles.

Types of angles

Acute angle : An angle with a measure less than 90°.
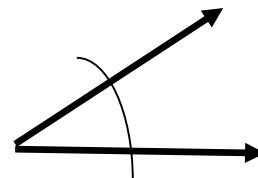
Right angle   : An angle that measures exactly 90º.
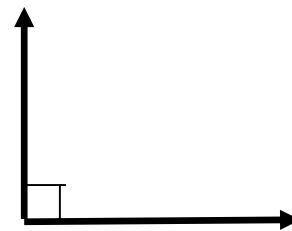
Obtuse angle : An angle with a measure greater than 90º but less than 180º.
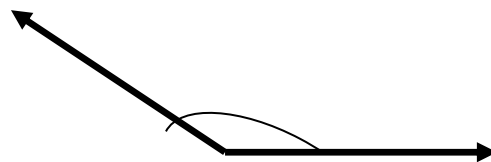
Straight angle : An angle that measures exactly 180º.
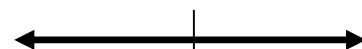
The triangle :   A polygon with three sides and three angles.

- Any triangle has at least 2 acute angles
- The sum of measure of the angles in a triangle = 180°

Classifying Triangles

According to its sides   **According to its angles**

Scalene   Acute   right   obtuse

      Isosceles   Equilateral   triangle   triangle   triangle
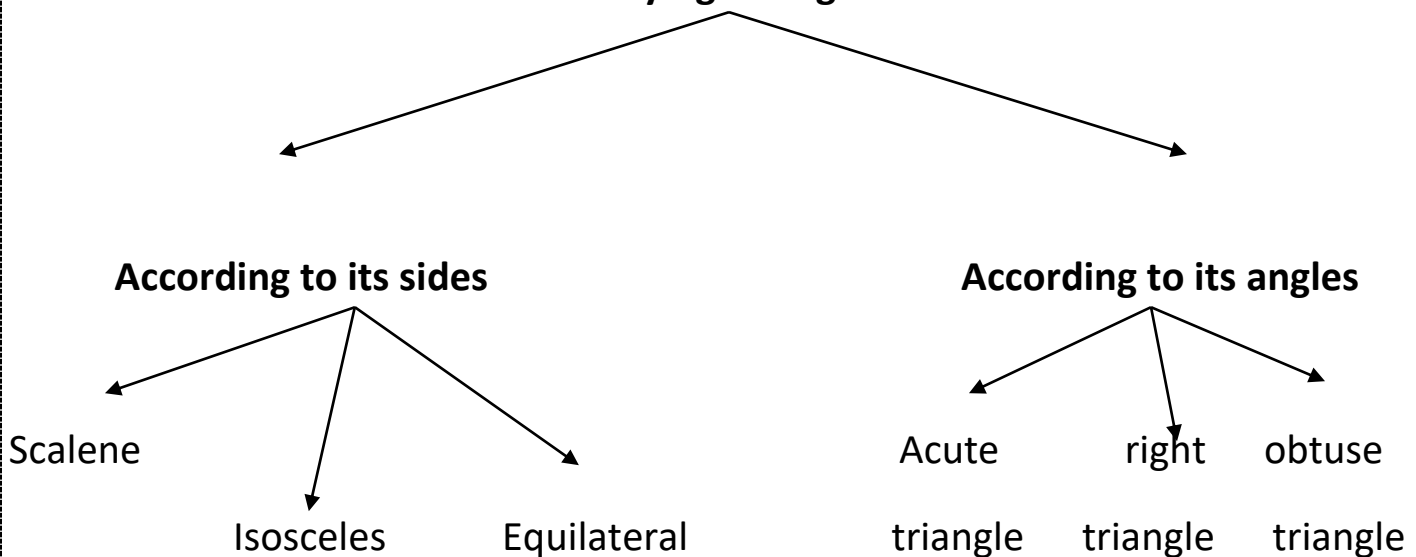
Scalene triangle : A triangle whose all 3 sides have different lengths sides and the 3 angles are different in measure

Isosceles triangle : A triangle that has 2 sides equal in length and 2 equal angles in measure

Equilateral : A triangle with all 3 sides are equal in length and the 3 angles are equal in measure

Each angle = 60°

Acute triangle :   A triangle with no angle measuring 90° or more

Right triangle :   A triangle that has one 90º angle.

Obtuse triangle : A triangle that contains one angle with a measure greater than 90º (obtuse angle) and two acute angles

Sheet 1

1) Classify shapes
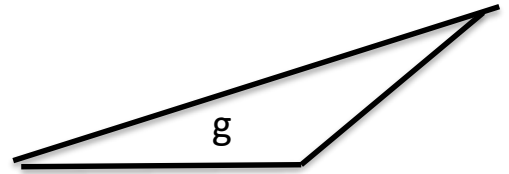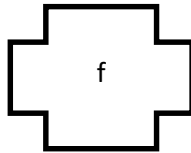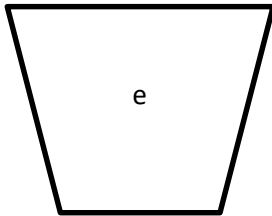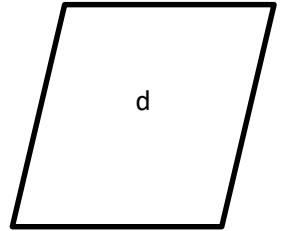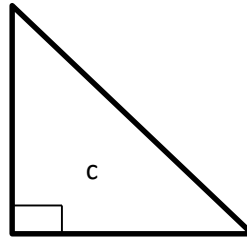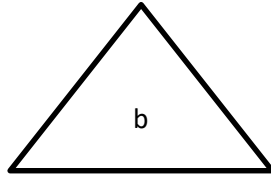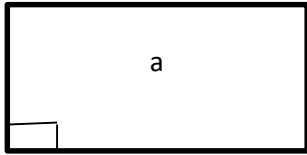
Shapes with a acute angles : ....

Shapes with obtuse angles ; ....

Shapes have parallel sides : ....

Shapes have perpendicular sides : ....

2) Complete :

a) .... has exactly 1 pair of parallel sides

b) .... has 2 pairs of adjacent sides that are congruent

c) .... has 2 pairs of parallel sides opposite each other

d) .... has 4 right angles 4 congruent sides

Sheet 2

1) <u>Use the ruler to measure the length of each side of the triangles. Then, record your measurements in centimeters (cm).</u>

....

....
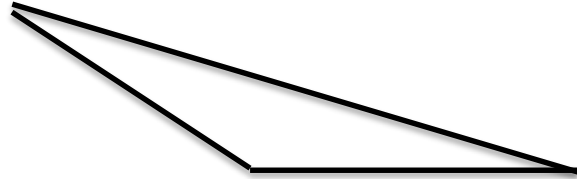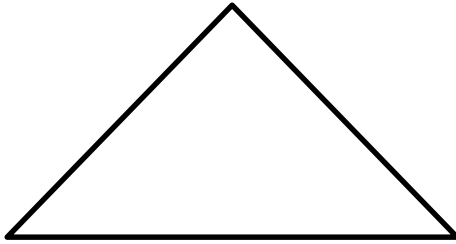
2) <u>Complete :</u>

   a) ……………………….. is a triangle whose its 3 sides are equal in length

   b) The obtuse triangle has only ………..   obtuse angle and ………….. acute angles

   c) The measure of the right angle = …………………

   d) Any triangle has at least two ……………… angles

   e) The ……………………………. triangle has 2 equal sides

1) <u>Count the unit tiles to determine the area of the rectangle.</u>
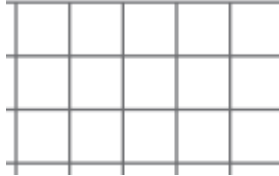
2) <u>Draw a rectangle with a length of 10 units and a width of 6 units., then find its area</u>
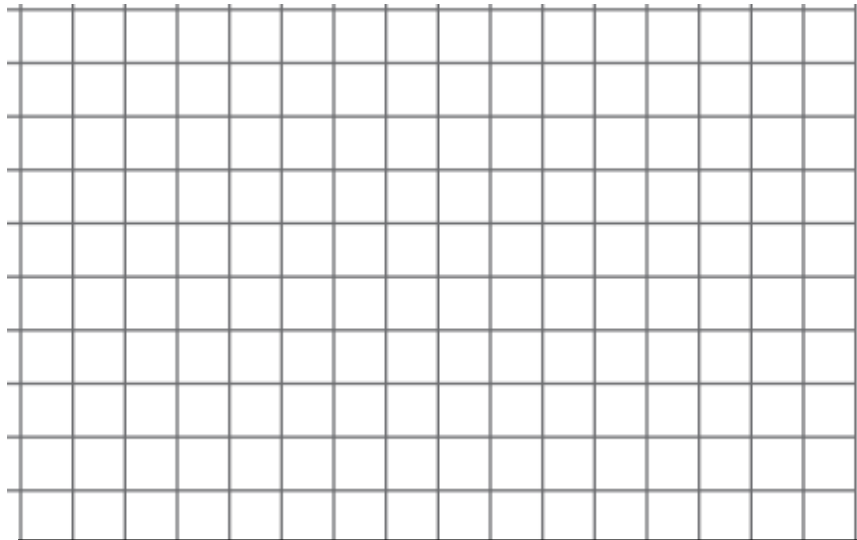
Sheet 4

1) Plot the points on the coordinate grid. : A(4,1) B(4,8) C(9,8) D(9,1)
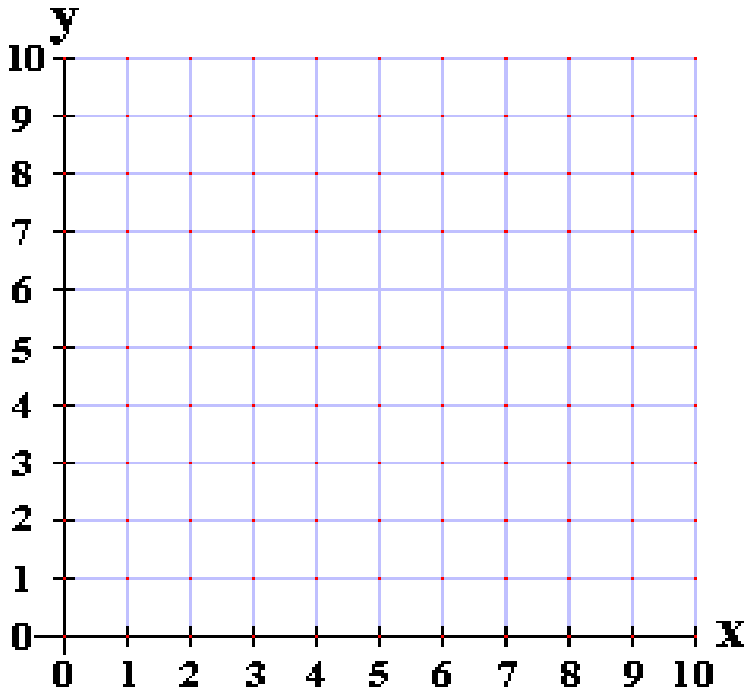
What is the type of the resulted polygon? Find its area

2) Write the coordinate pairs of the following :
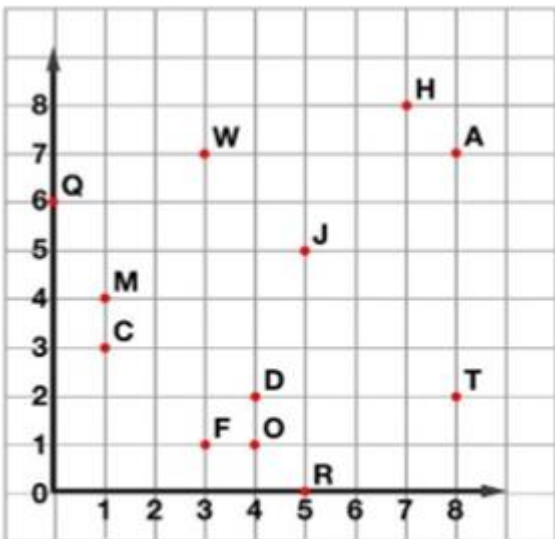
Revision on unit 10

1) **Complete :**

a) The four sides are equal in length in ………………………… , ………………………………..

b) The value of the missing numbers in the following table is …………………..

X values	2	3	4	5	6
Y values	2	4	6	……….	……………

c) The y- coordinate in the ordered pair (6.5 , 6.2) is ……………………..

d) In the triangle ABC , m < A= 90 , m<B = 30 , then m< C = ………………., then the type of this triangle according to its side is ……………………

e) The area of the opposite figure = …………………………. square units

2) **Plot the points on the coordinate plan**

A(2,4) , B(7, 4) , C (7 , 7) , D (2 , 7)
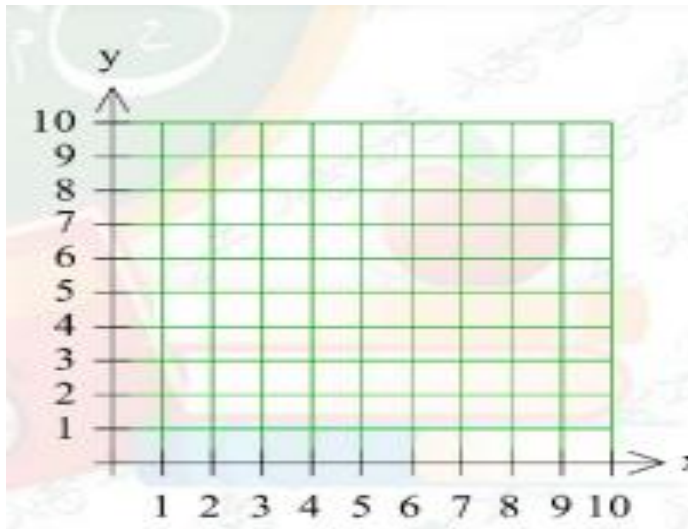
The length of AB= ……………………..

CD is parallel to ……………………………

AB is perpendicular to ………………………..

Unit 11 Sheet 1

Volume : The number of cubic units it takes to fill a figure

Capacity : The amount of liquid a container can hold.

1) **Find the volume of :**
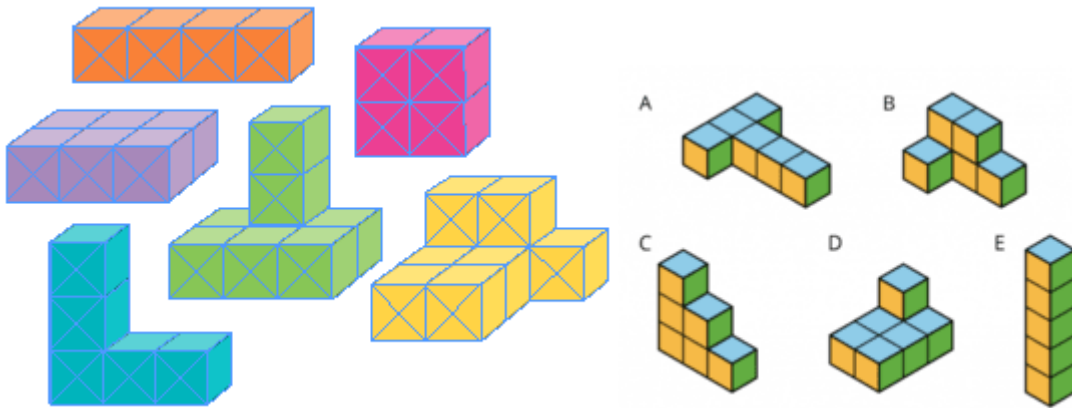
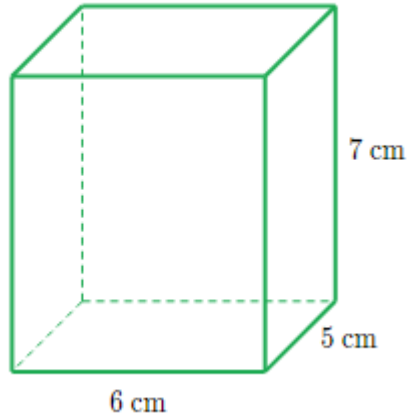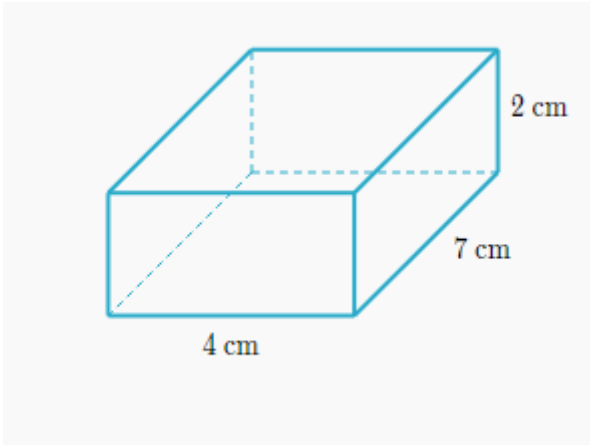2) **Label the dimensions of the rectangular prism. Each cube is 1 centimeter on all sides.**
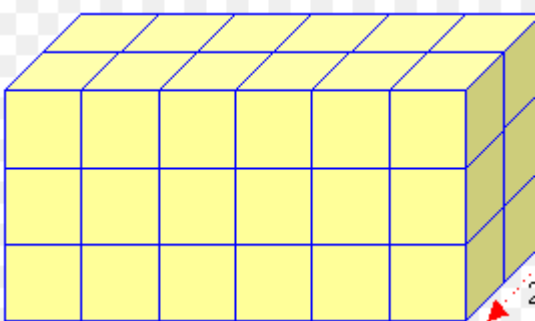
Length =   Width =   Height =

Sheet 2

1) Find the volume of each :

2) Find the volume of a rectangular prism with dimensions 3 m , 5m , 4m

....

3) Complete the table :

Length	Width	Height	Volume
4	2	3	....
3	5	....	30
....	4	5	80
7	....	4	280

4) Choose the right answer :

a) A rectangular prism of dimensions 1.5 m , 2 m ,3 m , its volume = …………..

(1.5 +2+3   or   (2+1.5) x 3   or   2(1.5+3)   or   1.5 x 2 x 3   )

b)   A rectangular prism of dimensions 6 m , 2 m ,4 m , its volume = …………..

(48 , 12 , 44 , 80)

c) The height of a rectangular prism whose base area is 20 square . units and a volume is 60 cubic units. = ……………………..

(1200 , 30 , 3 , 300)

d) the correct formula to determine the volume of a rectangular prism

V = Base area – height
V = Base area + height
V = Base area × height
V = Base area ÷height

Find the volume of each :

1 cm

4 cm

7 cm

6 cm

3 cm

4 cm

8 cm

2 cm

3 cm

10 cm
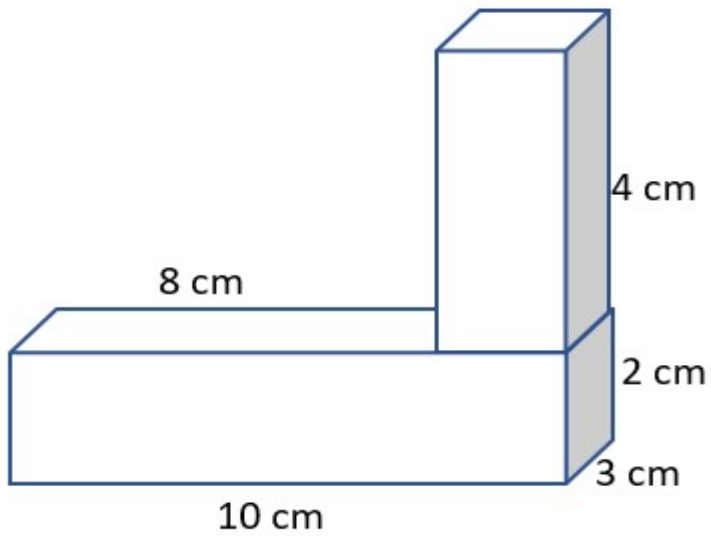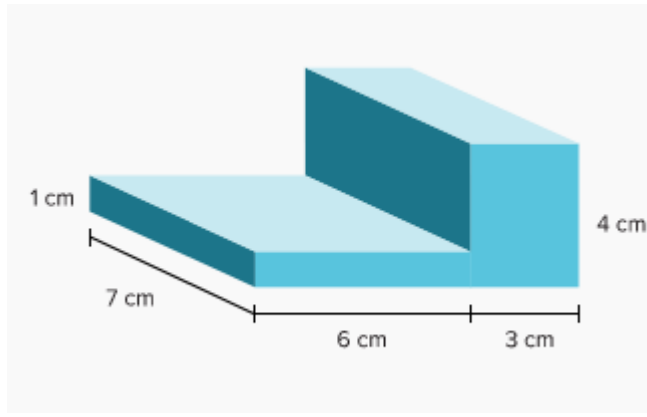
# Revision on unit 11

1) Choose the right answer :

a) A rectangular prism has 3 horizontal layers and 6 cubes units in each layer , then its volume = ……………… cube units (9 , 18 , 24 , 12)

b) The volume of the opposite solid = ……………………….. cm ^{3}

3cm

4cm

10 cm

(17 , 170 , 120 , 140)

c) The ……………….. has no vertices , no edges and no flat faces

(cylinder , cone , prism , sphere)

d) The solid which has 5 vertices and 8 edges is …………………………….
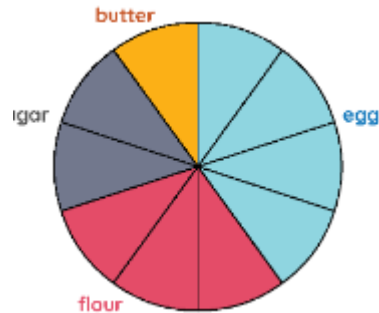
(cone , cube , pyramid , rectangular prism)

2) Complete :

a) The rectangular prism has …………………. faces , each of which is ……………….
shaped and each couple of corresponding faces are equal in ……………………..

b) The rhombus which has right angle is called …………………………….

c) The missing dimension in the opposite solid is ……………cm

2 cm

5cm

V= 100 cm^3
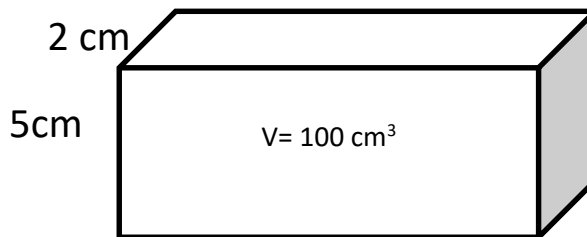
**d)** The …………………… has 12 edges , 8 vertices and 6 square faces

1) Solve :

If the whole pie represents a value of 100. It is divided into 10 slices or sectors. The arious colors represent the ingredients used to prepare the cake. What would be the exact quantity of each of the ingredients represented in specific colors in the following pie chart?

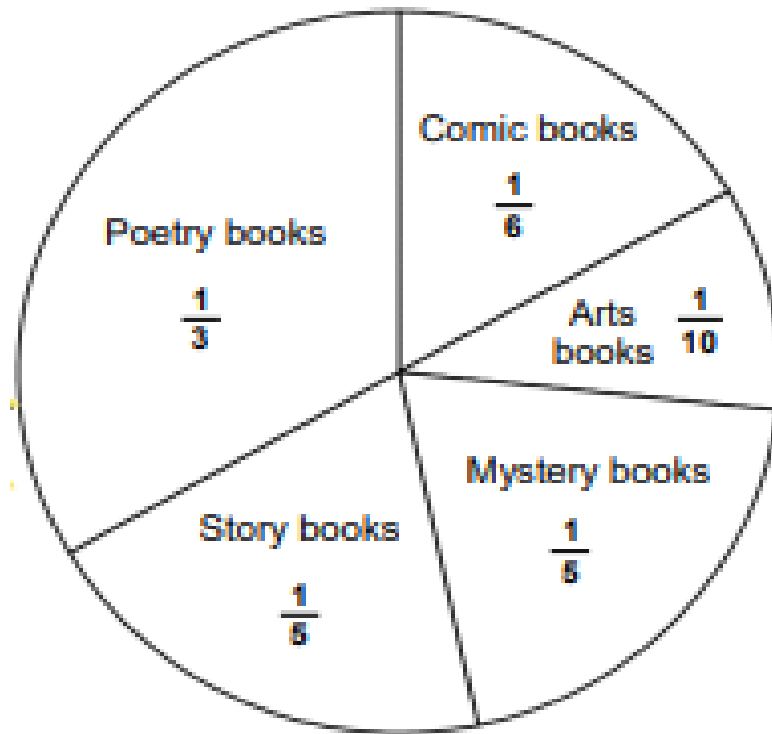| Quantity of Flour	....
Quantity of sugar	....
Quantity of eggs	....
Quantity of butter	....

2) Choose the right answer :

What fraction of the pie chart is blue?   ($\frac{1}{2}$, $\frac{1}{10}$, $\frac{1}{5}$, $\frac{3}{5}$)
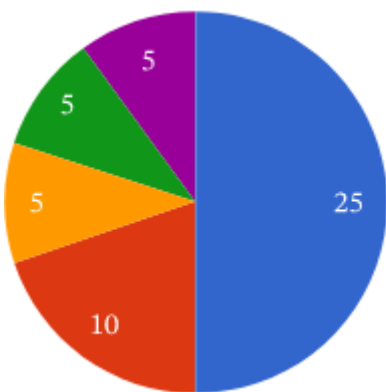
3) The pie graph shows data about Ahmed 's book collection. Study the graph and answer the questions below

1-Which books are equally collected by Ahmed ? _____

 2. What fraction of the collection are comic books? _____

3. Which books did he collect the most? _____

4. Which books are one-tenth of his collection? _____

5. What fraction of the collection are story and mystery books?---------------

4) The graph shows the favorite field trips of the students. Study the graph and answer the questions below.
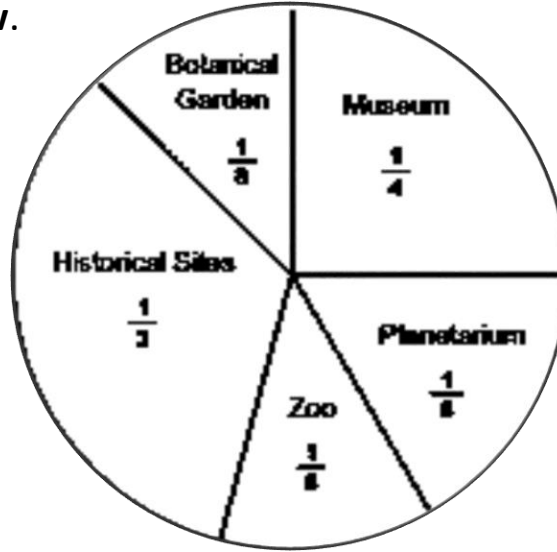
1. Which place is most liked by the students? _____

2. What fraction of the students like zoo? _____

3. What fraction of the students like garden and zoo? _____

4. . Which place is liked by one-sixth of the students? _____

5. Which place is liked twice as much as the botanical gardens------------------

Final revision

1) Choose the right answer :

a) The smallest like denominator of $\frac{5}{6}$ and $\frac{1}{3}$ is ....   (18 , 6 , 3 , 2)

b) Estimate the sum of $\frac{1}{6}$ and $\frac{7}{8}$ using the benchmark = ...

($\frac{25}{24}$, 0 , 1 , $\frac{1}{2}$)

c) The measure of an acute angle may be .... degree

(0 , 40 , 90 , 170)

d) $\frac{2}{6}$ x 3 = ...   ($\frac{5}{6}$, 1 , 36 , $\frac{12}{3}$)

e) Volume of = ...cube units   (3 , 4 , 5 , 10)

f) $8 \div \frac{1}{4}$ .... $4 \div \frac{1}{8}$ (< , > , =)

g) $\frac{1}{......} = \frac{12}{24}$ (0 , 1 , 2 , 3)

h) $\frac{8}{15}$ x n = $\frac{8}{15} + \frac{8}{15} + \frac{8}{15} + \frac{8}{15}$ ($\frac{8}{15}$, 2 , 3 , 4)

i) It is impossible to draw a triangle with one .... angle

(acute , obtuse , right , obtuse and right together)

j) $3\frac{1}{2}$ hours = ... hours , ... minutes

(3, 30 or 3, $\frac{1}{2}$ or 3 or 4 ,2)

k) $3\frac{12}{c}$ is slightly greater than 4 , ten c can be ………….   (11 , 9 , 13 , 12)

l) If the volume of a rectangular prism = 30 cm ^{3} , and the base area = 15 cm² ,

   then the height = ……….. cm   (5 , 2 , 3 , 450)

m) $\frac{5}{9}$ + $\frac{4}{7}$ is about 1 , the estimate is ………… (overestimate , underestimate)

n) $\frac{5}{10}$ + …………….. = 1   ($\frac{12}{24}$, $\frac{4}{8}$, $\frac{10}{100}$, all of them   )

o) Estimate $\frac{9}{11}$ - $\frac{2}{5}$ using benchmarks = …………   ($\frac{7}{6}$, 0 , 1 , $\frac{1}{2}$)

---

2) Complete :

a) The number of vertical layers in   = ………………………………….

b) $\frac{3}{12}$ x $\frac{3}{8}$ x $\frac{2}{6}$ = ………………………….

c) The scalene triangle has 3 ……………………………. sides

d) $\frac{100}{1000}$ x $5\frac{6}{12}$ = ………………………………..

e) The name of this figure   is …………………….

f) 2÷ 4 = ………………………..

g) 34÷5 = 6 + …………………….

h) Color $\frac{1}{4}$ of the circle

i) The sum of all the decimal in one circle = …………………

j) $\frac{1}{4} + \frac{3}{4} = 1 - $ ………………

k) $\frac{8}{9}$ x 0.125 = ………………………….

l) $1 - \frac{3}{8} - \frac{2}{8} = $ ……………

3) Write three different multiplication expressions that have the same product as

$5 \times \frac{4}{8}$

……

……

4) Mohamed bought a book by $\frac{1}{3}$ of his money and a candy by $\frac{2}{7}$ of his money and saved the left money . what is the fraction of money does Mohamed save ?
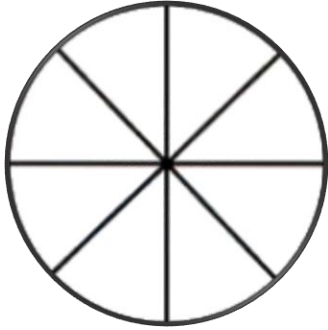
………

5) Samira studied Math for $1\frac{1}{2}$ hours and sciences for 40 minutes , how many minutes did Samira study for all ?

……

6) A rectangular prism with square base of side length 20 cm ,24000cm^3 of water was poured inside it to fill it completely .Find the height of water

……

7) In the opposite circle , this is represent 80 pupils

- Shade $\frac{1}{2}$ of the circle green .

- Shade $\frac{1}{8}$ of the circle red .

- Shade $\frac{1}{4}$ of the circle blue .

- Shade $\frac{1}{8}$ of the circle yellow .

- what decimal of the group is blue ?

- what decimal of the group is green ?

- what decimal of the group is green ?

- How many students do the green represent ?

- How many students do the blue represent ?

8) Ahmed s car consumes 1 liter of benzene to cover 5 Km , complete the table and graph the points
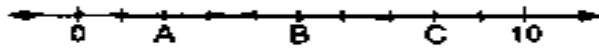
Benzene	Km
1	5
2	....
3	....
8	....
6	....
10	....
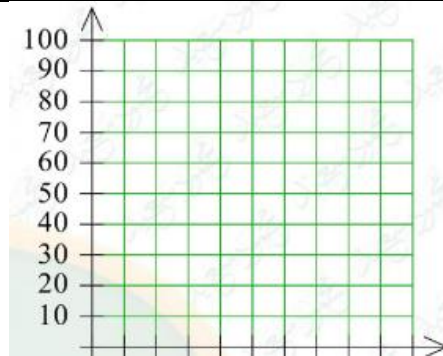
How many liters are needed to cover 40 km ?

12 liters can be consumed to cover .... Km

9) Answer with the number line :

– what is the value of A ?

– what is the value of B ?

– what is the value of C ?

– what is the distance between A and C

Saint Fatima Language school   Grade : 5   (2nd term 2022/2023)

Heliopolis   **Final exam (Math)**   Time: $1\frac{1}{2}$ **hours**

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1) <u>Choose the right answer</u> :

a) The L.C.M of denominators $\frac{1}{2}$ and $\frac{3}{10}$ is ……………………   (1 , 2 , 3 , 10)

b) The opposite pie chart shows the method used to travel , then the most
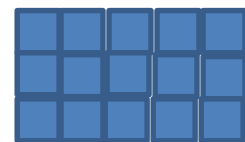
   common method to travel is …………………..
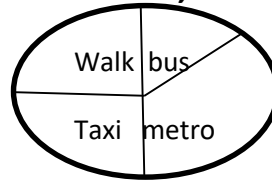
       (taxi , walk , metro , bus)

c) In the triangle ABC , m $\angle$A= 50^0 , m $\angle$B =60^0 , m $\angle$ C= 70^0 , then the triangle

   ABC is ……………………… angled triangle   (right , obtuse , acute)

d) $\frac{5}{8}$ + $\frac{1}{2}$ = 1+ ………………………   ($\frac{1}{2}$, $\frac{1}{8}$, $\frac{1}{5}$, $\frac{3}{4}$)

e) The area of the opposite rectangle = …………………. square units

       (10 , 15 , 24 , 18)

f) $\frac{1}{7}$ + $\frac{8}{9}$ is estimated as …………………..   (0 , $\frac{1}{2}$, 1 , $1\frac{1}{2}$)

g) A rectangular prism has 4 horizontal layers and 5 cube units in each layer ,

   then its volume = …….. cube units   (9 , 20 , $\frac{4}{5}$, $\frac{5}{4}$)

2) Complete :

a) $4\frac{5}{11}$ + y = 15 , then y = …………………………….

b) $\frac{3}{4} - \frac{5}{8}$ = ……………….÷ 4

c) The X – coordinate of (2 , 5) is …………………..

d) $\frac{3}{4}$ year = …………. months

e) There are ……………….fifths in the number 2

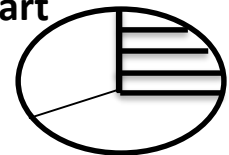f) the area of a rectangle with dimensions $2\frac{3}{4}$ cm and $3\frac{1}{2}$ cm =

…………………………………………………………………………………………………cm²

g) If the perimeter of the equilateral triangle XYZ = 18 cm , then $\overline{XY}$ =

……………cm

h) In the opposite figure : the fraction of the shaded pie chart

= ………………….

3) Choose the right answer :

a) The mixed number $4\frac{1}{3}$ can be regrouped as ……………..

$$(\quad \frac{13}{4} \quad , \quad 3\frac{1}{4} \quad , \quad 3\frac{4}{3} \quad , \quad 4+\frac{1}{3} \quad)$$

b) Which equation could be used to find the volume ?

((30+8) x 6   or   (6+8) x 30   or   (30x8) x 6   or   (6x8) +30)

c) The circular degree that match the following shaded fraction of the circle
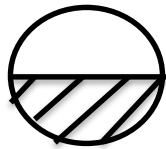
is…………………………..   (180^0 , 45^0 , 60^0 , 90^0)

d) 13÷7 equals each of the following except ………………

$$(\quad 1+\frac{6}{7} \quad or \quad 1\frac{6}{7} \quad or \quad \frac{26}{14} \quad or \quad 1x\frac{6}{7} \quad)$$

e) The opposite triangle is ……………………………   4cm 4 cm

  5 cm
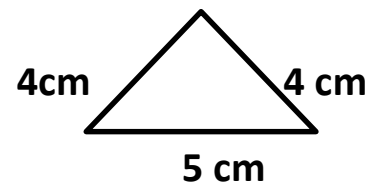
(equilateral , isosceles , scalene , obtuse)

f) The volume of the opposite rectangular prism = …………….cm³   4 cm

$$(\quad 15 \quad or \quad 120 \quad or \quad 6+5-4 \quad or \quad \frac{6}{5X\ 4} \quad)$$ 5cm

6cm
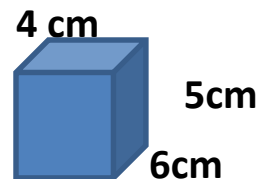
g) The origin point …………… ((0, 0) , (1 ,1) , (5 , 1), (5 , 0))

4A) **Estimate the sum of the following , then evaluate (simplify if possible)**

$4\dfrac{3}{5}$ $+2\dfrac{1}{15}$

Estimate = ……………………………………………………………………

Evaluate = …………………………………………………………………….

B) **If the price of 7 pens is 36 L.E .Find the price of each pen**

………………………………………………………………………………………………

……………………………………………………………………………………………..

C) **A rectangular prism of volume 12000 cm³ and its base of 20 cm long and**

15 cm wide .Find its height

………………………………………………………………………………………………..

………………………………………………………………………………………………

D) **In the opposite coordinate plane :**

Graph the figure ABCD where: A(2, 5) , B(6 , 5) , C (6 , 2), D(2, 2)