



Primary (4)
Worksheets (2023 \ 2024)

(Second Term)

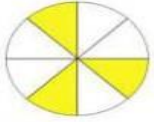
SUP.: Maha Ahmed

Name :

Class :

Unit 9 Sheet (1)

The fractions :



3

➔ Numerator (number of shaded parts)

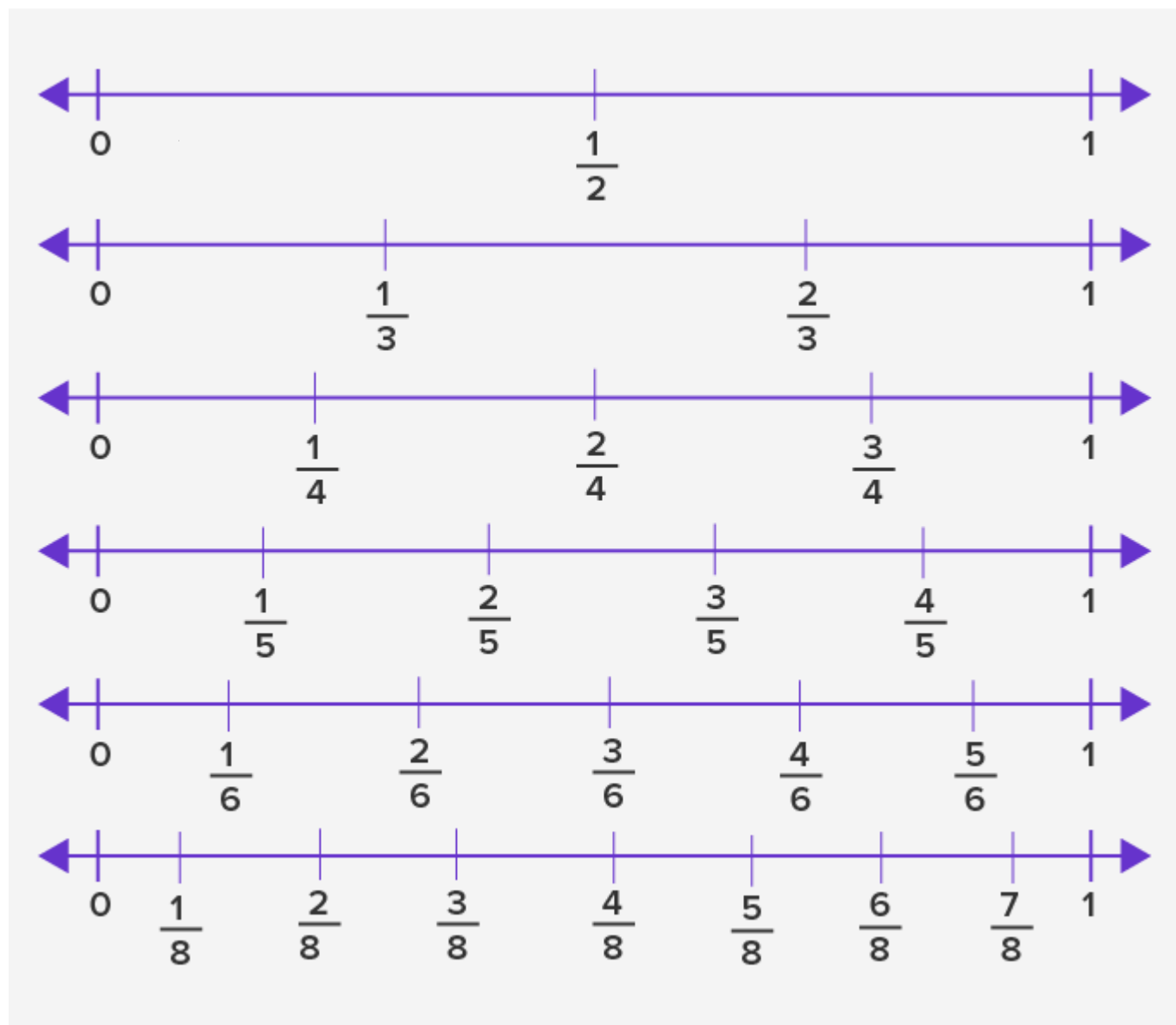
8

➔ Denominator (number of all parts)



The figure	No. of equal parts	No. of shaded parts	Fraction form	Word form
	2	1	$\frac{1}{2}$	One Half
	3	1	$\frac{1}{3}$	One Third
	4	1	$\frac{1}{4}$	One Fourth
	5	1	$\frac{1}{5}$	One Fifth
	6	1	$\frac{1}{6}$	One Sixth
	7	1	$\frac{1}{7}$	One Seventh
	8	1	$\frac{1}{8}$	One eighth

Fractions on a number line:



1) Choose the right answer :

1.



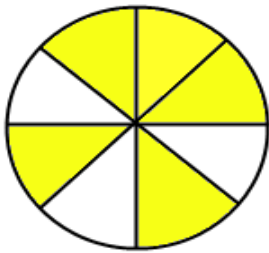
$\frac{1}{2}$

$\frac{3}{2}$

$\frac{2}{3}$

$\frac{1}{3}$

3.



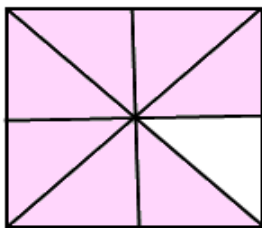
$\frac{3}{8}$

$\frac{5}{8}$

$\frac{3}{4}$

$\frac{2}{7}$

5.



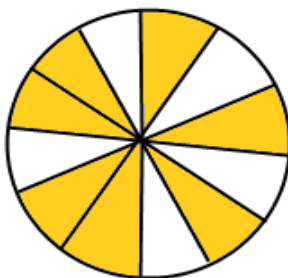
$\frac{3}{8}$

$\frac{6}{8}$

$\frac{7}{8}$

$\frac{8}{7}$

7.



$\frac{11}{12}$

$\frac{7}{12}$

$\frac{7}{11}$

$\frac{8}{12}$

2.



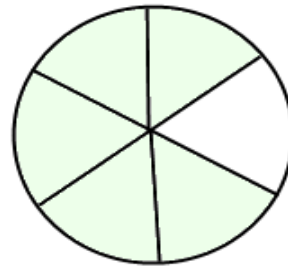
$\frac{1}{3}$

$\frac{3}{4}$

$\frac{1}{2}$

$\frac{2}{3}$

4.



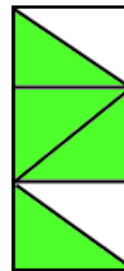
$\frac{6}{5}$

$\frac{3}{6}$

$\frac{2}{5}$

$\frac{5}{6}$

6.



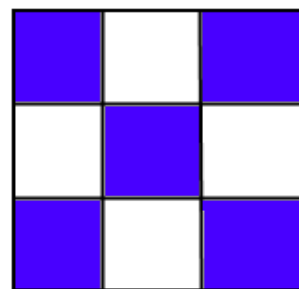
$\frac{4}{6}$

$\frac{5}{6}$

$\frac{6}{5}$

$\frac{2}{6}$

8.



$\frac{5}{9}$

$\frac{7}{9}$

$\frac{6}{9}$

$\frac{9}{6}$

2) Complete the table :

The fraction	Numerator	Denominator	Word form
—			Three tenths
—	4	9	
$\frac{2}{7}$			
$\frac{1}{11}$	8		
$\frac{7}{12}$			
—		3	A third

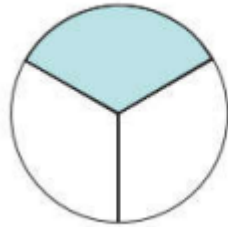
3) Complete :

- a) Half
- b) Eighth
- c) Four fourths
- d) Ninth
- e) Six tenths
- f) The fraction whose numerator 4 and denominator 5 written as read as
- g) The fraction whose denominator 9 and numerator 2 written asread as

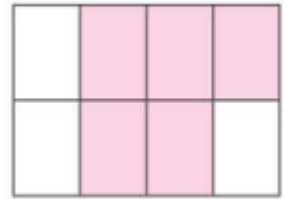
4) Write the fraction which represents the colored parts :



=



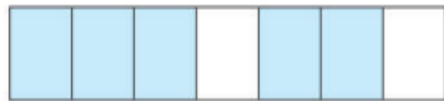
=



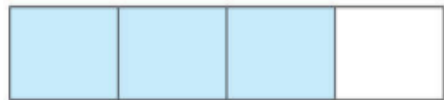
=

5) Match :

$$\frac{1}{3} + \frac{1}{3}$$



$$\frac{3}{7} + \frac{2}{7}$$



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



Sheet (2)

1) Use the unit fractions to write an equation showing how to decompose each fraction :

a) $\frac{3}{5} = \dots\dots\dots$

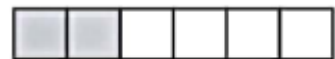
b) $\frac{2}{10} = \dots\dots\dots$

c) $\frac{4}{12} = \dots\dots\dots$

d) $\frac{6}{9} = \dots\dots\dots$

2) Circle all the units fractions :

$\frac{1}{8}$, $\frac{5}{6}$, $\frac{1}{3}$, $\frac{1}{10}$, $\frac{6}{7}$



3)

Write the composed fraction. Then, draw a model to represent the composed fraction.

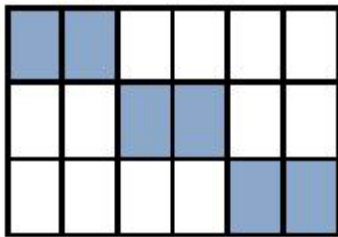
$$\frac{1}{4} + \frac{1}{4} + \frac{1}{4} =$$

4) Choose the right answer :

a) $\frac{3}{8} = \dots\dots\dots$

($\frac{3}{8} + \frac{3}{8} + \frac{3}{8}$ or $\frac{1}{8} + \frac{2}{8} + \frac{3}{8}$ or $\frac{1}{8} + \frac{1}{8} + \frac{1}{8}$ or $\frac{1}{3} + \frac{1}{3} + \frac{1}{3}$)

b) The equation of the decomposing of the fraction of this shape is



($\frac{6}{18}$ or $\frac{3}{9}$ or $\frac{2}{6} + \frac{2}{6} + \frac{2}{6}$ or $\frac{1}{18} + \frac{1}{18} + \frac{1}{18} + \frac{1}{18} + \frac{1}{18} + \frac{1}{18}$)

c) If we want to fill a bottle of capacity $\frac{4}{5}$ liter and we use a cup of capacity $\frac{1}{5}$ liter how many times needed to fill the measuring bottle ?

(3 , 2 , $\frac{3}{5}$, 4)

d) The composing form of this figure is



($\frac{5}{7}$ or $\frac{5}{2}$ or $\frac{1}{7} + \frac{1}{7} + \frac{1}{7} + \frac{1}{7} + \frac{1}{7}$ or $\frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5}$)

e) $\frac{9}{13} = \dots\dots\dots$

($\frac{1}{13} + \frac{1}{13}$ or $\frac{2}{13} + \frac{3}{13} + \frac{7}{13}$ or $\frac{4}{13} + \frac{5}{13}$ or $\frac{3}{3} + \frac{1}{2} + \frac{2}{4} + \frac{3}{4}$)

5) How many fifths are there in the whole one ? Explain by drawing a figure representing your answer

.....
.....

6) Mona had a chocolate bar, she divided it into sevenths .

Draw fraction strips to show what she did

She divided 1 whole into..... equal parts

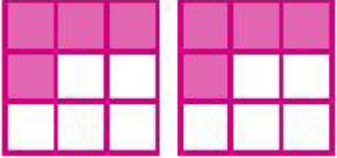

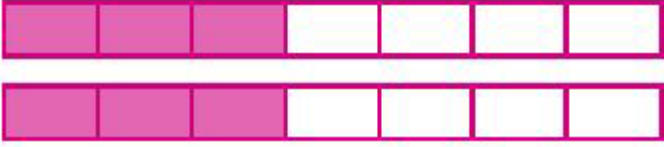

1 whole =

7) Write a number sentence to decompose the following fraction using unit fraction :



Sheet (3)

1) Complete the table :

The figure	Decomposing (1)	Decomposing (2)	The fraction
			
			
			
			
			$\frac{8}{9}$
	$\frac{1}{7} + \frac{2}{7} + \frac{3}{7}$		

2) Find :

a) $\frac{4}{11} + \frac{3}{11} = \frac{\dots\dots}{\dots\dots}$

b) $\frac{9}{14} = \frac{3}{\dots} + \frac{\dots}{14}$

c) $\frac{2}{10} + \frac{3}{10} + \frac{5}{10} = \frac{\dots\dots}{\dots\dots} = \dots\dots$

d) $\frac{\dots}{9} + \frac{\dots}{9} + \frac{4}{9} = \dots\dots$

e) $3\frac{5}{12} + 1\frac{11}{12} = \dots\dots\dots$

3) A square of side length $2\frac{1}{3}$ cm .Find its perimeter

.....

4) At the market I bought $3\frac{3}{8}$ Kg of fruits , and $4\frac{7}{8}$ Kg of vegetables , what was the total mass in Kg of the items I bought ?

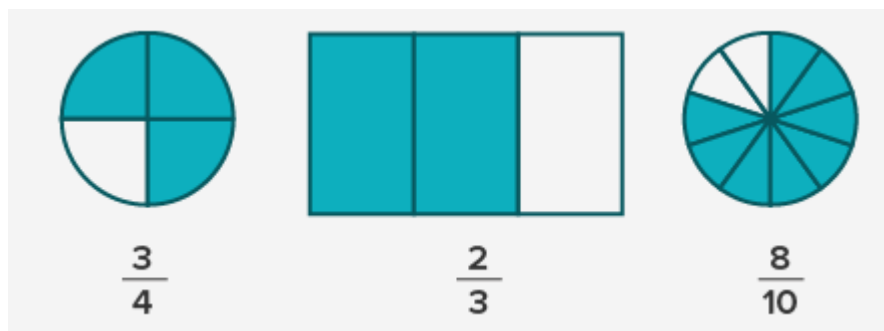
.....

Sheet (4)

Types of fractions

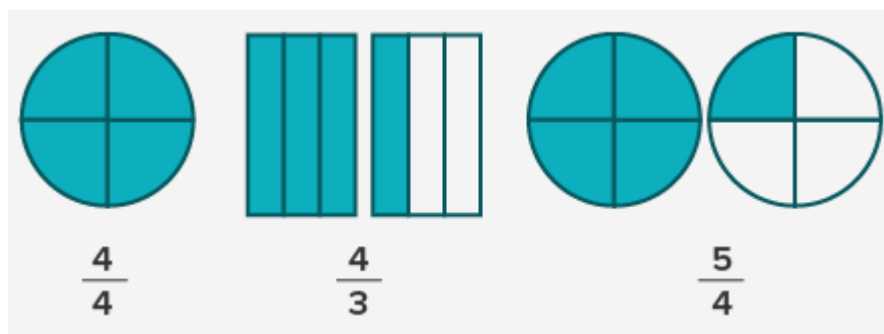
1) Proper fractions

Fractions in which the numerator is less than the denominator are called proper fractions.



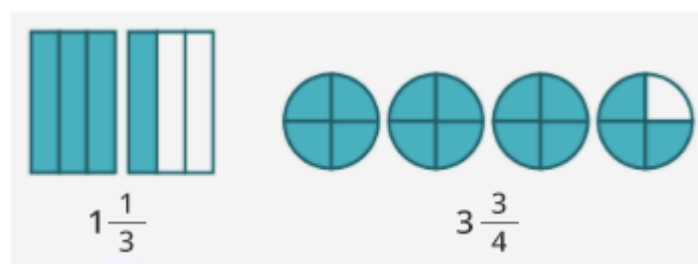
2) Improper fractions

Fractions in which the numerator is more than or equal to the denominator are called improper fractions.



3) Mixed fractions

Mixed fractions consist of a whole number along with a proper fraction.



1) Match :

$$\frac{5}{5}$$

• proper fraction •

$$3\frac{5}{8}$$

• improper fraction •

$$\frac{5}{7}$$

• mixed number •

$$\frac{9}{7}$$

$$\frac{3}{13}$$

$$2\frac{5}{7}$$

2) Convert into mixed number

a) $\frac{12}{7} = \dots\dots\dots$

b) $\frac{31}{8} = \dots\dots\dots$

c) $\frac{25}{4} = \dots\dots\dots$

d) $\frac{19}{3} = \dots\dots\dots$

e) $\frac{16}{2} = \dots\dots\dots$

3) Convert into improper fraction :

a) $3\frac{1}{2} = \dots\dots\dots$

b) $4\frac{3}{5} = \dots\dots\dots$

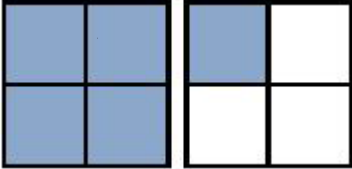

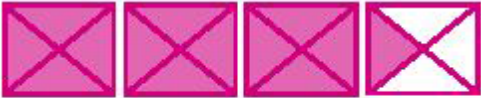
c) $12\frac{7}{10} = \dots\dots\dots$

d) $9\frac{2}{11} = \dots\dots\dots$

e) $10\frac{5}{12} = \dots\dots\dots$

Sheet (5)

1) Complete the table :

The figure	Mixed number	Improper fraction
		
 <hr style="width: 25%; margin-left: 0;"/>		
		

2) Mona baked a square cake for her mom's birthday. She wanted to put a border of frosting on the top of the cake. If one side of the cake measures $\frac{5}{7}$ meter what is the perimeter of the top of the cake?

What is the perimeter of the top of the cake? Write the answer as both a mixed number and an improper fraction

.....

.....

3) Complete :

a) $8 + 5 + 3\frac{1}{6} = \dots\dots\dots$

b) $\frac{5}{12} + \frac{\dots\dots\dots}{12} + \frac{2}{\dots\dots\dots} = \dots\dots\dots = \dots\dots\dots$

c) $\frac{9}{12} + \frac{4}{12} + 5 = \dots\dots\dots = \dots\dots\dots$

d) $18 - \frac{7}{15} = \dots\dots\dots$

Sheet (6)

1) Complete :

$$\text{a) } \frac{1}{6} = \frac{\dots\dots}{24}$$

$$\text{b) } \frac{\dots\dots}{9} = \frac{42}{63}$$

$$\text{c) } \frac{5}{10} = \frac{1}{\dots\dots}$$

$$\text{d) } \frac{6}{36} = \frac{\dots\dots}{6}$$

$$\text{e) } \frac{2}{3} = \frac{10}{\dots\dots}$$

$$\text{f) } \frac{3}{4} = \frac{12}{\dots\dots}$$

$$\text{g) } \frac{4}{\dots\dots} = \frac{9}{9}$$

$$\text{h) } \frac{7}{8} = \frac{\dots\dots}{32}$$

$$\text{i) } \frac{14}{18} = \frac{7}{\dots\dots}$$

$$\text{j) } \frac{8}{\dots\dots} = \frac{4}{10} = \frac{\dots}{300}$$

Sheet (7)

1) Compare :

a)



b)



c) $3\frac{1}{5}$

3

d) $2\frac{7}{10}$

$2\frac{3}{7}$

e) 8

$6\frac{2}{25}$

f) $\frac{2}{5}$

$\frac{18}{45}$

g) $\frac{3}{4}$

$\frac{1}{12}$

2) Ahmed and Aly each had a candy bar , each ate $\frac{1}{4}$ of the bar but Aly ate more candy than Ahmed
Draw a model to explain that

3) Put (\checkmark) or (X) :

a) $\frac{4}{5}$ is an improper fraction ()

b) $\frac{3}{6}$ is a proper fraction ()

c) $5\frac{4}{7}$ is a mixed number ()

d) $\frac{8}{4}$ is a whole number ()

e) $6\frac{1}{4} = \frac{28}{4}$ ()

f) $1\frac{3}{5} < \frac{8}{5}$ ()

g) $2\frac{2}{7} > 1\frac{4}{7}$ ()

4) Match :

a) $5 = \frac{\dots}{20}$ 12 ()

b) $\frac{4}{10} = \frac{\dots}{100}$ 100 ()

c) $\frac{8}{3} = 2\frac{2}{\dots}$ 40 ()

d) $\frac{17}{17} = \frac{12}{\dots}$ 3 ()

Sheet (8)

1) Arrange in ascending order :

$$\frac{2}{11} \quad , \quad \frac{8}{11} \quad , \quad \frac{5}{11} \quad , \quad \frac{10}{11}$$

.....

$$\frac{3}{14} \quad , \quad \frac{3}{8} \quad , \quad \frac{3}{7} \quad , \quad \frac{3}{9} \quad , \quad \frac{3}{13}$$

.....

$$6, \quad \frac{5}{8} \quad , \quad 3\frac{2}{7} \quad , \quad \frac{3}{4} \quad , \quad \frac{1}{2}$$

.....

.....

.....

$$\frac{2}{5} \quad , \quad \frac{0}{5} \quad , \quad \frac{3}{15} \quad , \quad \frac{4}{5}$$

.....

.....

2) If the recipe to make one glass of banana milkshake is :

$\frac{1}{4}$ liter of milk , $\frac{1}{12}$ liter of water , $1\frac{1}{2}$ spoon of sugar , $\frac{1}{2}$ cup of banana

Ahmed wants to make 3 glasses for his friends Write the new recipe

And if Ahmed has $\frac{1}{2}$ liter of milk , $\frac{1}{2}$ liter of water , 5 spoons of sugar and $1\frac{1}{2}$ cups of banana

If Ahmed has enough quantity for each content ?

If not write the remainder quantity for each one

.....

.....

sheet (9)

1) Simplify (Reduce):

a) $\frac{4}{14} = \dots\dots\dots$

b) $\frac{12}{15} = \dots\dots\dots$

c) $\frac{13}{26} = \dots\dots\dots$

d) $\frac{11}{55} = \dots\dots\dots$

e) $\frac{18}{24} = \dots\dots\dots$

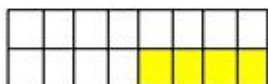
f) $\frac{10}{24} = \dots\dots\dots$

2) Choose the right answer :

a) $\frac{1}{2}$ is smaller than $\dots\dots\dots$ ($\frac{1}{3}$, $\frac{2}{2}$, $\frac{1}{5}$)

b) $\frac{1}{4}$ is bigger than $\dots\dots\dots$ ($\frac{1}{8}$, $\frac{1}{2}$, $\frac{1}{3}$)

c) $\frac{3}{3}$ is equal to $\dots\dots\dots$ ($\frac{9}{6}$, $\frac{8}{8}$, $\frac{1}{3}$)



d) $\dots\dots\dots = \dots\dots\dots$ ($\frac{4}{12}$, $\frac{1}{4}$, $\frac{2}{16}$)

Sheet (10)

Add the following fractions :

$$\frac{1}{4} + \frac{1}{4} =$$

$$\frac{1}{9} + \frac{2}{9} =$$

$$\frac{3}{6} + \frac{1}{6} =$$

$$\frac{6}{15} + \frac{3}{15} =$$

$$\frac{3}{8} + \frac{3}{8} =$$

$$\frac{2}{12} + \frac{4}{12} =$$

$$\frac{1}{16} + \frac{3}{16} =$$

$$\frac{1}{8} + \frac{1}{8} =$$

$$\frac{1}{6} + \frac{1}{6} =$$

$$\frac{6}{25} + \frac{4}{25} =$$

$$\frac{3}{18} + \frac{3}{18} =$$

$$\frac{2}{6} + \frac{2}{6} =$$

$$\frac{8}{30} + \frac{7}{30} =$$

$$\frac{3}{9} + \frac{3}{9} =$$

$$\frac{1}{20} + \frac{4}{20} =$$

$$\frac{1}{10} + \frac{7}{10} =$$

$$\frac{5}{21} + \frac{2}{21} =$$

$$\frac{4}{40} + \frac{6}{40} =$$

$$\frac{1}{12} + \frac{1}{12} =$$



Sheet (11)

Find :

$$1) \frac{2}{7} + \frac{3}{7} = \frac{\quad}{7}$$

$$2) \frac{4}{5} - \frac{1}{5} = \frac{\quad}{5}$$

$$3) \frac{5}{9} - \frac{4}{9} = \frac{\quad}{9}$$

$$4) \frac{2}{10} + \frac{5}{10} = \frac{\quad}{10}$$

$$5) \frac{2}{7} + \frac{3}{7} = \frac{\quad}{7}$$

$$6) \frac{3}{8} - \frac{2}{8} = \frac{\quad}{8}$$

$$7) \frac{4}{15} + \frac{3}{15} = \frac{\quad}{15}$$

$$8) \frac{6}{7} - \frac{2}{7} = \frac{\quad}{7}$$

$$9) \frac{3}{4} - \frac{2}{4} = \frac{\quad}{4}$$

$$10) \frac{5}{12} + \frac{6}{12} = \frac{\quad}{12}$$

$$11) \frac{13}{20} - \frac{6}{20} = \frac{\quad}{20}$$

$$12) \frac{4}{11} + \frac{5}{11} = \frac{\quad}{11}$$

$$13) \frac{7}{20} + \frac{6}{20} = \frac{\quad}{20}$$

$$14) \frac{8}{15} - \frac{6}{15} = \frac{\quad}{15}$$

$$15) \frac{3}{14} + \frac{8}{14} = \frac{\quad}{14}$$

$$16) \frac{17}{20} - \frac{14}{20} = \frac{\quad}{20}$$

$$17) \frac{5}{16} + \frac{6}{16} = \frac{\quad}{16}$$

$$18) \frac{21}{30} - \frac{8}{30} = \frac{\quad}{30}$$

Sheet (12)

1) Mina had 20 pounds, and he spent $\frac{1}{4}$ of them
How many pounds did he give way?
.....

2) Philopateer had 15 pens, he sharpened $\frac{1}{3}$ of them
How many pens did he sharpen?
.....

3) Karin has 12 chocolates, she ate $\frac{1}{6}$ of them
How many chocolates did she eat?
.....

4) Mona runs $\frac{2}{10}$ of Km she stopped , then she continues running . she runs $\frac{6}{10}$
of Km .What fraction of a Km does Mona run ?
.....

5) Complete the equivalent fractions :

$$1) \frac{2}{3} = \frac{\quad}{9} \quad 2) \frac{2}{5} = \frac{\quad}{15} \quad 3) \frac{1}{7} = \frac{\quad}{14} \quad 4) \frac{3}{3} = \frac{\quad}{9}$$

$$5) \frac{3}{4} = \frac{9}{\quad} \quad 6) \frac{1}{2} = \frac{6}{\quad} \quad 7) \frac{5}{6} = \frac{\quad}{18} \quad 8) \frac{1}{5} = \frac{3}{\quad}$$

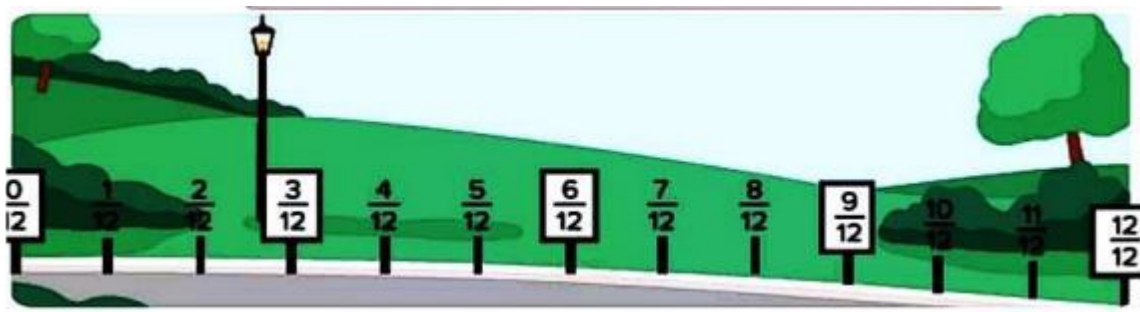
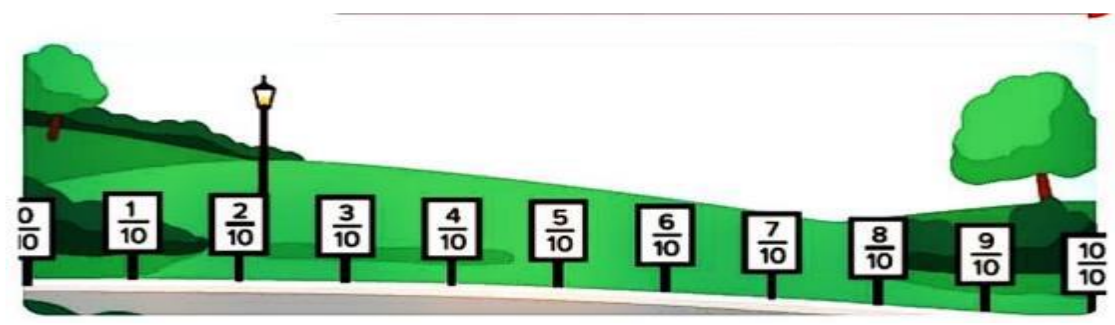
$$9) \frac{2}{9} = \frac{\quad}{18} \quad 10) \frac{3}{5} = \frac{\quad}{20} \quad 11) \frac{2}{6} = \frac{6}{\quad} \quad 12) \frac{3}{7} = \frac{9}{\quad}$$

Sheet (13)

1) Match each fraction to its reference equivalent fraction :

0	2	$1\frac{1}{2}$	1	$\frac{1}{2}$
$\frac{16}{8}$	$\frac{0}{5}$	$\frac{9}{9}$	$\frac{3}{6}$	$\frac{6}{4}$

2) Circle the fraction which = 0 , $\frac{1}{2}$, 0



Sheet (14)

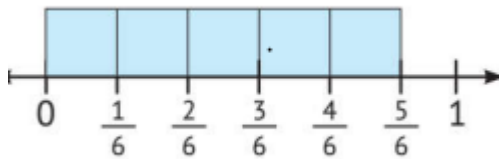
1) Write the fraction , then decompose it :



$$= \frac{\dots\dots}{\dots\dots} = \dots\dots + \dots\dots + \dots\dots$$



$$= \frac{\dots\dots}{\dots\dots} = \dots\dots + \dots\dots + \dots\dots + \dots\dots + \dots\dots$$



$$= \frac{\dots\dots}{\dots\dots} = \dots\dots + \dots\dots$$

2) Put each fraction in its suitable place on the number line

$$\frac{1}{2} \quad \wedge \quad 1\frac{1}{2} \quad \wedge \quad \frac{8}{2} \quad \wedge \quad 3\frac{1}{2} \quad \wedge \quad 2\frac{1}{2}$$



Sheet (15)

1) Find :

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

b) $\frac{3}{8} + \frac{6}{8} = \dots\dots\dots = \dots\dots\dots$

c) $\frac{5}{6} - \frac{4}{6} = \dots\dots\dots$

d) $1 - \frac{7}{12} = \dots\dots\dots$

e) $3 - 2\frac{1}{2} = \dots\dots\dots$

2) Complete :

a) $\frac{1}{2} = \frac{\dots\dots\dots}{4}$

b) $\frac{2}{3} = \frac{\dots\dots\dots}{15}$

c) $4 = \frac{\dots\dots\dots}{6}$

d) $\frac{9}{24} = \frac{\dots\dots\dots}{\dots\dots\dots}$ in simplest form

(Sheet 16)

1) Complete :

a) $3\frac{1}{2} = \dots\dots\dots$ as improper fraction

b) $6\frac{5}{6} = \dots\dots\dots$ as improper fraction

c) $4\frac{7}{11} = \dots\dots\dots$ as improper fraction

d) $\frac{61}{10} = \dots\dots\dots$ as mixed number

e) $\frac{24}{7} = \dots\dots\dots$ as mixed number

2) Choose the right answer :

a) $2\frac{1}{3} = \dots\dots\dots$ ($\frac{5}{3}$, $\frac{6}{3}$, $\frac{7}{3}$, $\frac{8}{3}$)

b) $\frac{22}{5} = \dots\dots\dots$ ($5\frac{2}{5}$, $4\frac{2}{5}$, $2\frac{2}{5}$, otherwise)

c) $\frac{7}{7} + \frac{9}{9} = \dots\dots\dots$ ($\frac{16}{16}$, 1 , 2 , $\frac{79}{79}$)

d) $\frac{27}{30} = \frac{9}{\dots\dots}$ (3 , $\frac{9}{10}$, 7 , 10)

e) $1 \times \frac{28}{70} = \dots\dots\dots$ (1 , $\frac{4}{10}$, $\frac{128}{70}$, otherwise)

Sheet (17)

1) Draw a bar model and write an addition and multiplication sentence for :

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

Bar model :

Addition sentence :

Multiplication sentence :

$$\frac{5}{8}$$

Bar model :

Addition sentence :

Multiplication sentence :

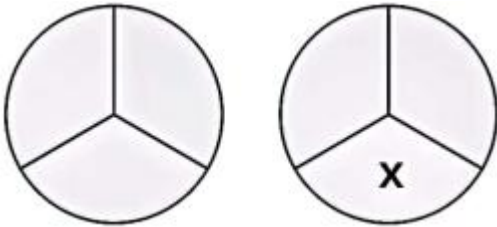
2) Look at the first fraction in each row. Circle the equivalent fractions. Cross out the ones that are not equivalent:

$\frac{1}{6}$	$\frac{1}{4}$	$\frac{2}{10}$	$\frac{3}{18}$	$\frac{5}{30}$	$\frac{2}{12}$	$\frac{4}{24}$	$\frac{4}{12}$
$\frac{3}{7}$	$\frac{9}{21}$	$\frac{6}{14}$	$\frac{12}{28}$	$\frac{6}{12}$	$\frac{5}{21}$	$\frac{7}{14}$	$\frac{13}{35}$
$\frac{5}{8}$	$\frac{3}{10}$	$\frac{20}{32}$	$\frac{10}{16}$	$\frac{15}{20}$	$\frac{16}{24}$	$\frac{15}{24}$	$\frac{5}{9}$

Revision on unit 9

1) Choose the right answer :

a) A fraction model is shown



Which equation is represented by this model?

- A. $2 - \frac{1}{3} = \frac{5}{3}$
- B. $2 - \frac{1}{3} = \frac{5}{6}$
- C. $1 - \frac{1}{3} = \frac{5}{3}$
- D. $1 - \frac{1}{3} = \frac{5}{6}$

b)

What is the sum of $4\frac{6}{8}$ and $2\frac{3}{8}$?

- A. $3\frac{9}{16}$
- B. $6\frac{1}{8}$
- C. $6\frac{9}{16}$
- D. $7\frac{1}{8}$

c)

What is the difference of $5\frac{1}{5} - 2\frac{3}{5}$?

- A. $3\frac{3}{5}$
- B. $2\frac{3}{5}$
- C. $3\frac{2}{5}$
- D. $2\frac{2}{5}$

d) $\frac{3}{5} = \frac{1}{5} + \dots\dots\dots$ ($\frac{1}{5}$, $\frac{3}{5}$, $\frac{4}{10}$, 1)

e) Which of the following is closer to 1 ? ($\frac{6}{12}$, $\frac{6}{15}$, $\frac{11}{12}$, $\frac{23}{8}$)

f) Which of the following is the biggest ? ($\frac{5}{9}$, $\frac{7}{12}$, $\frac{20}{9}$, 1)

g) $\frac{19}{7}$ as mixed number = $\dots\dots\dots$ ($2\frac{5}{7}$, $1\frac{9}{7}$, $1\frac{3}{7}$, $2\frac{5}{7}$)

h) is the number below the bar of the fraction
 (fraction , numerator , denominator , proper fraction)

i) $\frac{3}{4} \times \frac{5}{5} \dots\dots\dots \frac{2}{10} \times \frac{2}{2}$ (< , > , =)

j) $\frac{2}{5} + \frac{1}{5} < \frac{2}{7} + \frac{1}{7}$ (true , false)

k) Mariam ordered a pizza that was $\frac{1}{4}$ sausage , $\frac{1}{4}$ cheese , $\frac{1}{4}$ pepperoni and the rest mushroom .what fraction of the pizza represented the sum of sausage and mushroom ?
 ($\frac{1}{8}$, $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$)

l) $5 \times \frac{1}{6} = \dots\dots\dots$ ($\frac{5}{60}$, $\frac{6}{6}$, $5\frac{1}{6}$, $1 \times \frac{5}{6}$)

2) Complete :

a) $3 - \frac{2}{9} = \dots\dots\dots$

b) $\frac{36}{48} = \dots\dots\dots$ in simplest form

c) $\frac{16}{20} = \frac{\dots\dots}{10}$

d) $\frac{1}{3} + \frac{1}{3} = \frac{\dots\dots}{\dots\dots} \times 2$

e) $7\frac{3}{9} - \dots\dots\dots = 4\frac{1}{9}$

f) $\dots\dots\dots - 2\frac{1}{5} = 3\frac{3}{5}$

g) $2 + \frac{1}{8} + 3 + \frac{3}{8} = \dots\dots\dots$

h) $\frac{7}{10} = \frac{70}{\dots\dots} = \frac{\dots\dots}{20}$

3) Use the benchmark fractions 0 , $\frac{1}{2}$, 1 to order the following fractions from least to greatest :

$\frac{3}{8}$, $\frac{7}{9}$, $\frac{5}{10}$

.....

4) A rectangle of $3\frac{1}{5}$ cm length and $2\frac{2}{5}$ cm width .Find the perimeter

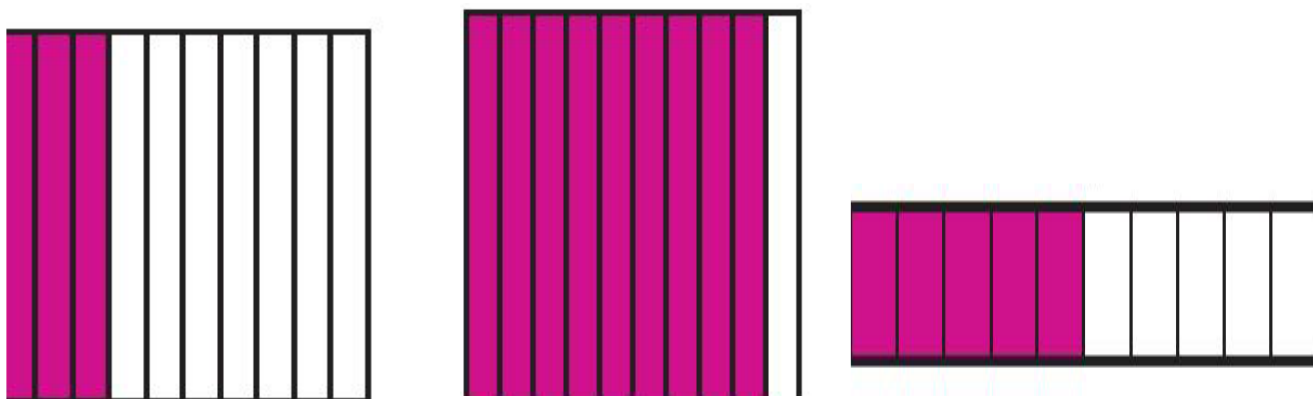
.....

Unit 10 Sheet (1)

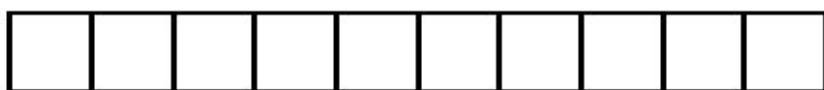
Decimal Numbers

Fractions which have denominator 10 , 100 , 1000 ,can be written by using a point that is called the **decimal point**.

1) Write the fraction and the decimal



2) Shade in the model to present the decimal :

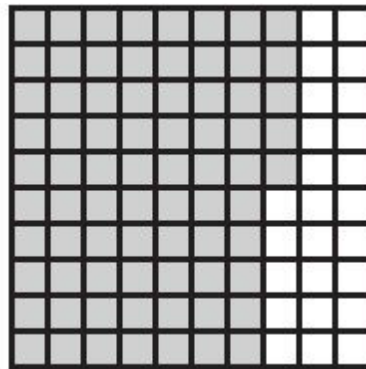
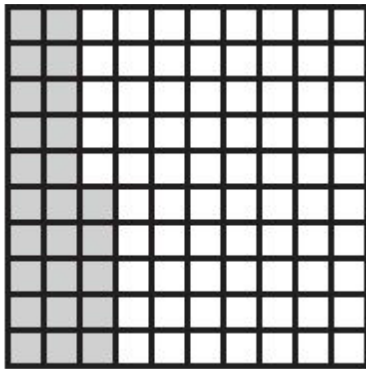
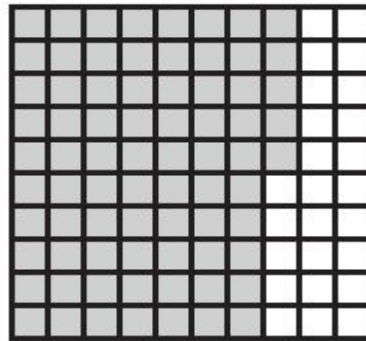
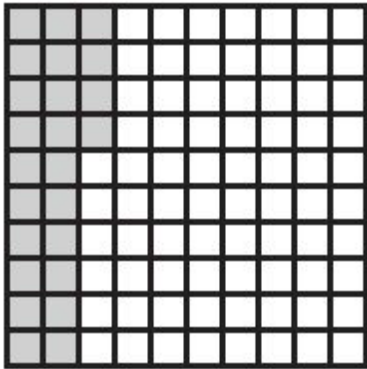


0.8



0.4

3) Write the fraction and the decimal



4) Complete the table :

the fraction	The decimal	Word form
$\frac{2}{10}$	.....	.....
.....	0.1	.....
.....	.....	Eight tenths
$\frac{15}{100}$	.....	.....
.....	0.78	.....

Sheet (2)

The place value :

132.89

It is read : one hundred thirty two and eighty nine hundredths

1 = hundred

3 = tens

2 = ones

. = decimal point

8 = tenths

9 = hundredths

Complete the table :

Standard form	Word form	Unit form	Expanded form
6.78
.....	Four hundred twelve and nine hundredths	.....	.....
.....	9 ones , 5 tenths , 6 hundredths	.....
.....	20 + 7 + 0.1 + 0.08
0.03

Sheet (3)

1) Express the following decimals into fractions :

a) $12.5 = \dots\dots\dots$

b) $0.08 = \dots\dots\dots$

c) $400.62 = \dots\dots\dots$

d) $8.9 = \dots\dots\dots$

2) Find :

a) $7.8 = \dots\dots\dots$ tenths
= $\dots\dots\dots$ In fraction form

b) $9.5 = \dots\dots\dots$ tenths
= $\dots\dots\dots$ in fraction form

c) $0.4 = \dots\dots\dots$ tenths
= $\dots\dots\dots$ in fraction form

d) $51.93 = \dots\dots\dots$ hundredths
= $\dots\dots\dots$ in fraction form

3) Complete the table :

Standard form	Word form	Fraction form	Expanded form
4.8	.....	.....	.....
.....	.....	$11\frac{9}{100}$	.....
.....	Fifty eight and twenty two hundredths	.....	.....
.....	.....	.....	$20 + 7 + 0.6 + 0.04$

Sheet (4)

1) Complete :

a) 3.4 is a decimal which is lying between the whole numbers and

b) $28.75 = \dots\dots\dots + 0.05 + 8 + \dots\dots\dots$

c) 39 hundredths = decimal form

d) The place value of the digit 4 in 33.45 is

e) $\frac{7}{10} = \frac{\dots\dots\dots}{100}$

2) Choose the right answer :

a) $2\frac{1}{10} = \dots\dots\dots$ (10.2 , 2.1 , 1.2 , 10.1)

b) $26.70 = \dots\dots\dots$ ($\frac{267}{10}$, $\frac{2670}{10}$, $\frac{26}{70}$, otherwise)

c) $0.1 < \dots\dots\dots < 0.2$ (0.3 , 0.21 , 0.12 , 0.02)

d) 50 hundredths 5 tenths (< , > , =)

3) Write three decimals between :

a) 0.1 and 0.9

b) 12.7 and 12.6

c) 5 and 6

Revision on unit 10

1) Choose the right answer :

- a) $8 + 0.1 + 0.05 = \dots\dots\dots$ (71.5 , 7.15 , 7.51 , 1.75)
- b) The underlined digit in 23.61 is in $\dots\dots\dots$ place
(ones , tens , tenths , hundredths)
- c) Fifty three hundredths in digit = $\dots\dots\dots$ (53.00 , 5300 , $\frac{53}{10}$, 0.53)
- d) $2.4 \dots\dots\dots 2\frac{42}{100}$ (< , > , =)
- e) Which of the following is greater than 1.64 (1.7 , 1.5 , 1.08 , 1.47)
- f) $\frac{35}{100} + \frac{2}{10} < \dots\dots\dots$ ($\frac{7}{10}$, $\frac{55}{100}$, $\frac{3}{10}$, $\frac{49}{100}$)
- g) 8 tenths is equivalent to $\dots\dots\dots$ ($\frac{80}{10}$, 0.08 , $\frac{8}{100}$, $\frac{80}{100}$)
- h) Which of the following is true ($0.53 > 0.55$ or $1.1 > 0.99$ or $0.03 > 0.3$)

2) Complete :

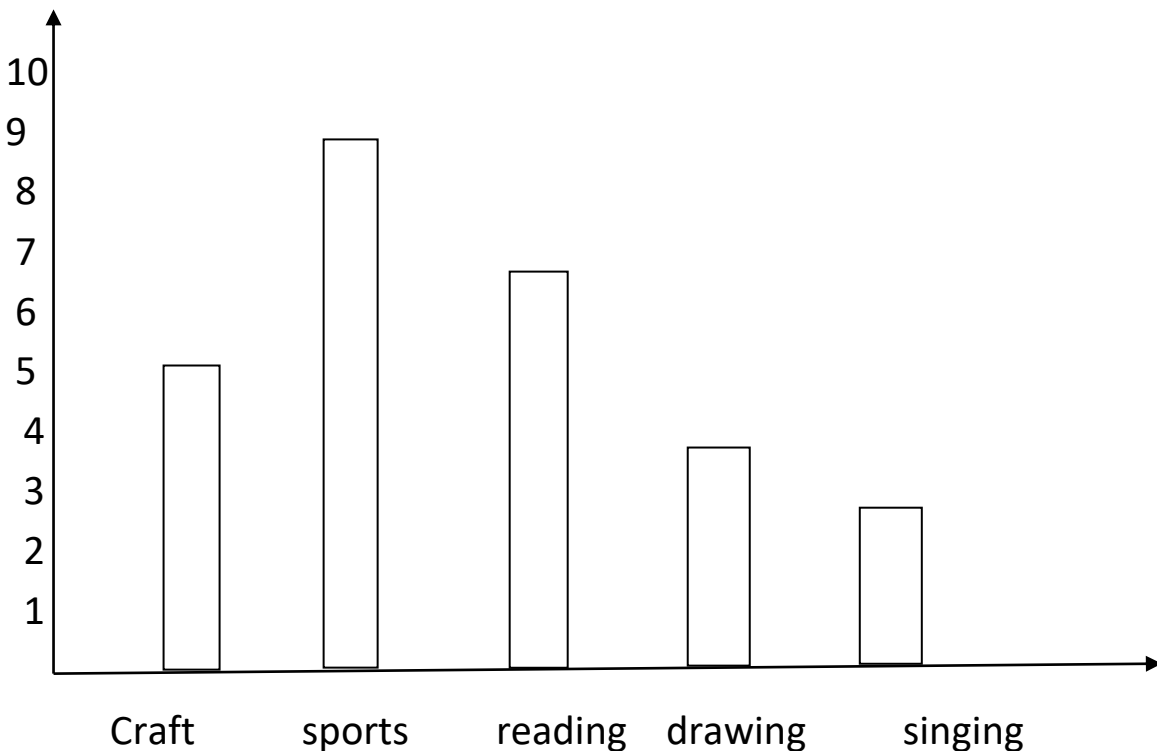
- a) $0.2 = \dots\dots\dots$ as a fraction
- b) $\frac{18}{100} - \frac{5}{100} = \dots\dots\dots$ as a decimal
- c) Four and fourteen hundredths =
 $\dots\dots\dots$ in expanded form
- d) 7 ones , 9 tenths , seven hundredths = $\dots\dots\dots$ in digit
- e) $\dots\dots\dots = 132 + 0.8 + 0.09 = \dots\dots\dots$
- f) $21.8 = \dots\dots\dots$ tenths
- g) $4.5 = \dots\dots\dots$ hundredths
- h) $19.74 = \dots\dots\dots$ In words

Unit 11 Sheet (1)

1) The following graph shows the favorite activities of pupils
Complete the table then answer the questions

Activity	Drawing	Sports	Reading	Singing	Craft
Number					

- 1) Which activity do most students prefer
.....
- 2) Which activity was chosen by the fewest students
.....
- 3) How many students chose reading
.....
- 4) How many more students chose sport than craft
.....
- 5) Which two activities their sum equals the number of students chose sports
.....



2) Use the following data to make a line plot :

$6\frac{1}{2}$	7	5	7	7	6	$6\frac{1}{2}$	$7\frac{1}{2}$	$5\frac{1}{2}$	$6\frac{1}{2}$
$5\frac{1}{2}$	6	$6\frac{1}{2}$	$6\frac{1}{2}$	$5\frac{1}{2}$	7	5	6	$6\frac{1}{2}$	$5\frac{1}{2}$

.....

.....

.....

.....

3) Use the following data to make a line plot then answer the questions

11 , $12\frac{1}{4}$, $11\frac{3}{4}$, $11\frac{1}{2}$, 12 , $11\frac{1}{2}$, $11\frac{1}{4}$, $11\frac{1}{4}$, $11\frac{1}{2}$, 12

1- What is the most common record

.....

2- What is the least common record

.....

4) Choose the right answer :

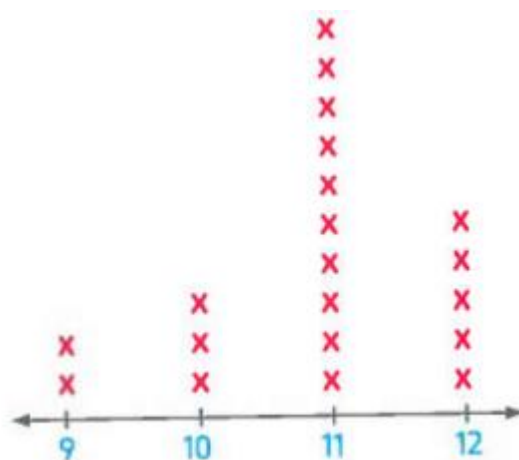
a) From the opposite tally table the value of $x = \dots\dots\dots$

Name	Tally	Number
Amgad	||||	4
Ola	||||	5
Nora	|||| |||	10
Alaa		x
Noha	||	2
Total		30

- 6
- 7
- 8
- 9

b) in the opposite line plot, if it represents the age of 40 students , then each x stands for Students

- one
- two
- three
- four



Revision on unit 11

1) Complete :

- a) The data which is divided into two different groups can be represented by
a
- b) We put the scale on the axis
- c) To represent data on a bar graph, you need to drawaxis , and axis
- d) The line plot is used to represent of the data

**2) The following table shows the marks of some students in an exam
.Represent the following data by using line plot , then answer the questions**

$6\frac{1}{2}$	5	$4\frac{1}{2}$	4	$5\frac{1}{2}$
6	$5\frac{1}{2}$	4	$4\frac{1}{2}$	5
4	$5\frac{1}{2}$	6	$5\frac{1}{2}$	$4\frac{1}{2}$
$5\frac{1}{2}$	6	$6\frac{1}{2}$	5	4

.....
What is the most frequent mark ?

.....
What is the least frequent mark ?

3) The following table shows the number of hours which Ramy and Mark spent in playing sports during four days

Represent the following data by using the double bars , then answer the questions

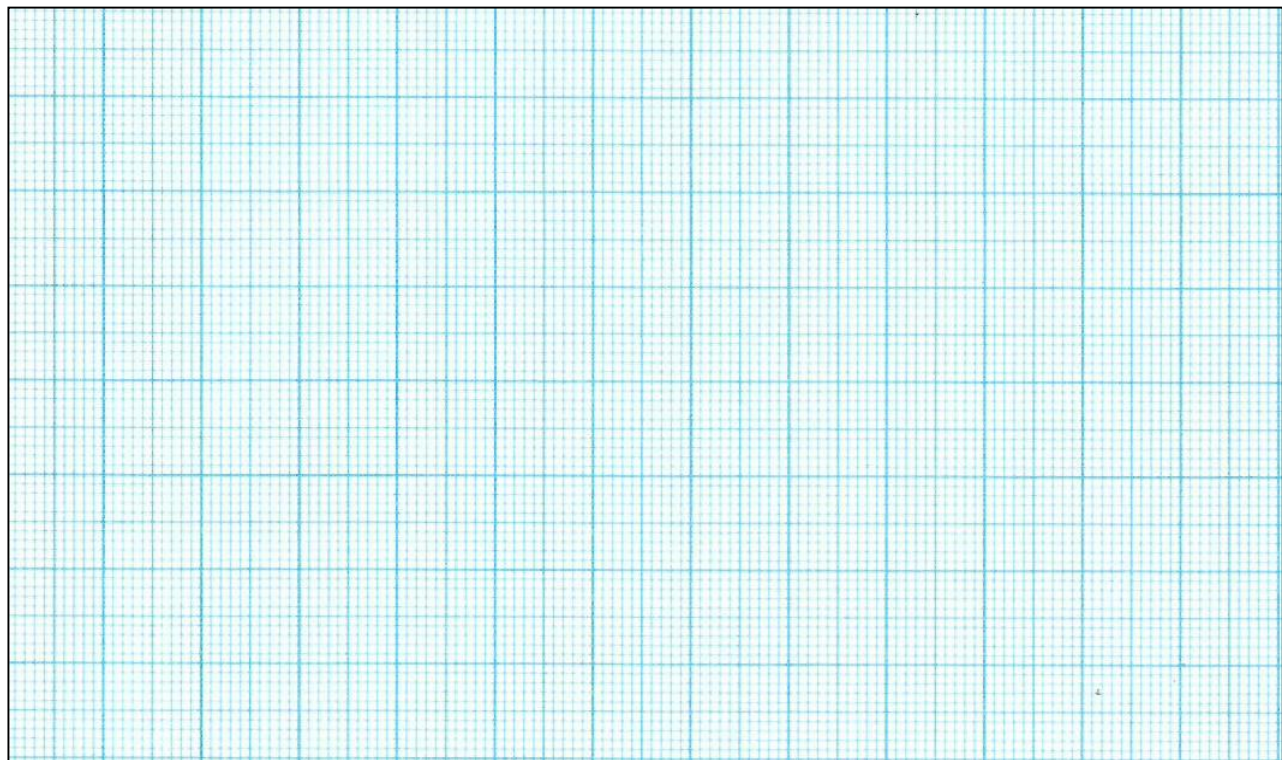
Days	Sun	Mon	Tues	Wed
Name				
Ramy	3	4	2	3
Mark	2	5	3	4

How many hours did Ramy spend in the four days?

.....

How many hours did Ramy and Mark spend on Wednesday?

.....




Unit 12 Sheet 1

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 ( ,  ,  ,)

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

1) Write the name of each polygon according to the number of its sides

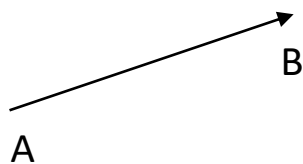


2) Write the name and the symbol of each :



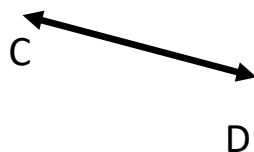
Name :

Symbol :



Name :

Symbol :



Name :

Symbol :

Sheet 2

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 ()

1) **From the opposite figure : Complete :**

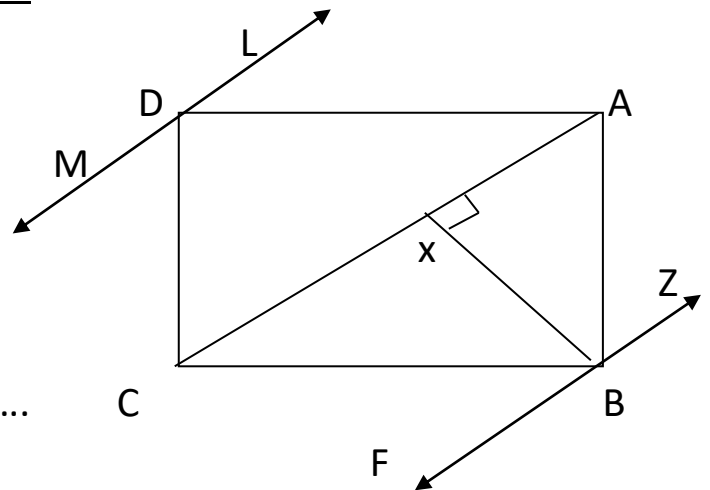
a) $\overline{LM} //$

b) $\overline{AB} \perp$ and

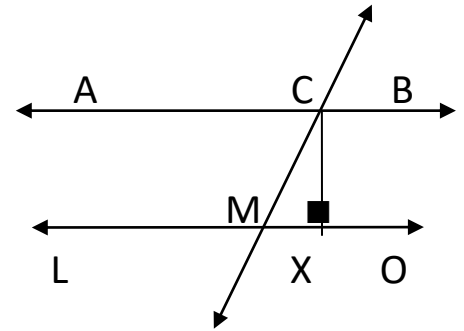
c) $\overline{AD} //$

d) \overline{XB} intersect \overline{CA} at the point

e) $\overline{BX} \perp$ and



2) In the shown figure :



- a) AB intersect ,
- b) C is the point of intersection of AB and
- c) and are parallel lines
- d) and are perpendicular lines

3) Draw :

2 Intersecting lines

2 Parallel lines

2 Perpendicular lines

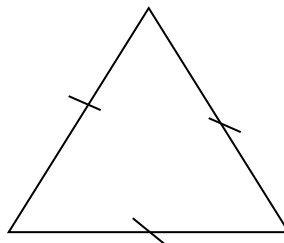
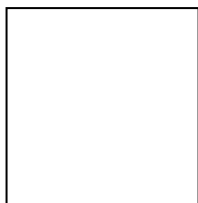
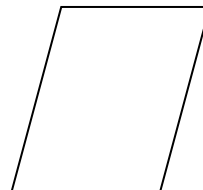
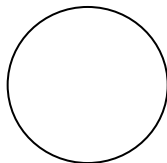
Sheet 3

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

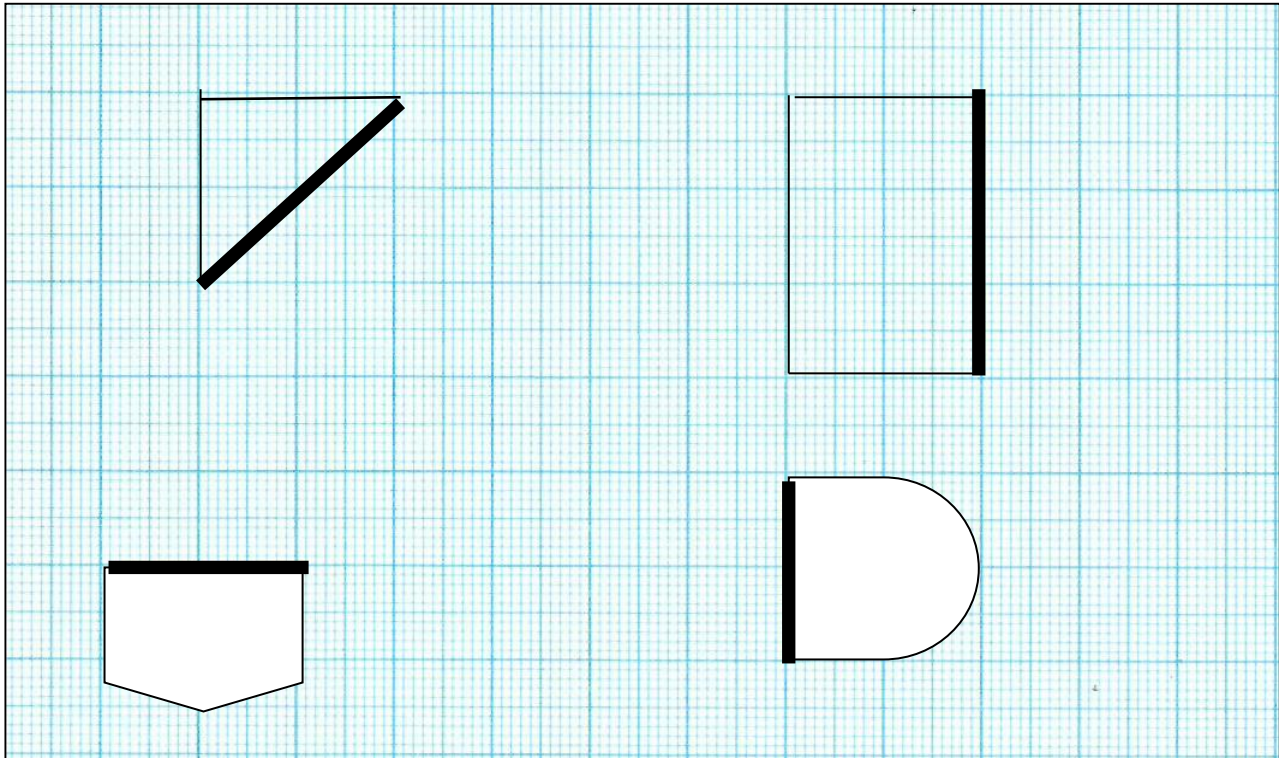
The figure	The number of lines of symmetry
Parallelogram	0
Trapezium	0
Scalene triangle	0
Isosceles triangle	1
Rectangle	2
Equilateral triangle	3
Square	4
Circle	Infinite

Draw one line of symmetry or more for each of the following :



Sheet 4

In each picture, you can see half of the shape and the line of symmetry. Use that information to draw the rest of each shape



Unit 13 sheet 1

Angle : two rays that share an endpoint

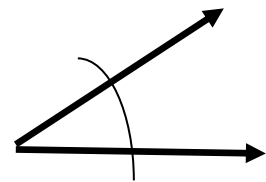
Measure angle : The measure of the size of an angle. It tells how far one side is turned from the other side. A one degree angle turns through $\frac{1}{360}$ of a full circle

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.

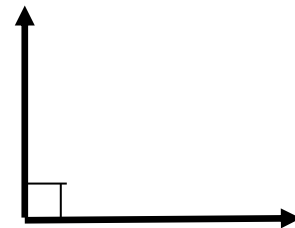
Protractor : A tool used to measure and draw angles.

Types of angles

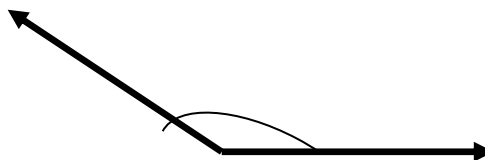
Acute angle : An angle with a measure less than 90° .



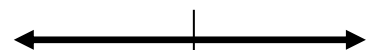
Right angle : An angle that measures exactly 90° .



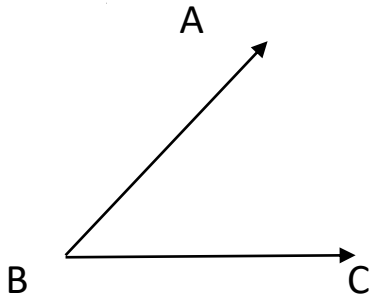
Obtuse angle : An angle with a measure greater than 90° but less than 180° .



Straight angle : An angle that measures exactly 180° .



1) Write three different names for each angle. then use the protractor to measure angles, and write its type .

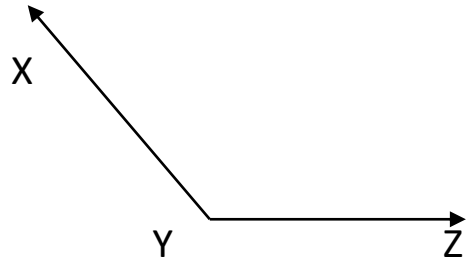


Name 1 :

Name 2 :

Name 3 :

Type :

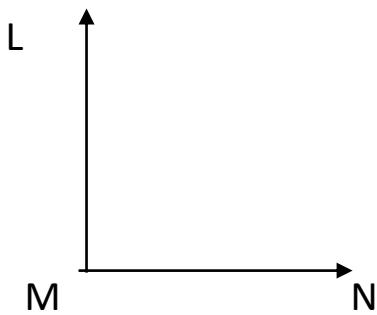


Name 1 :

Name 2 :

Name 3 :

Type :

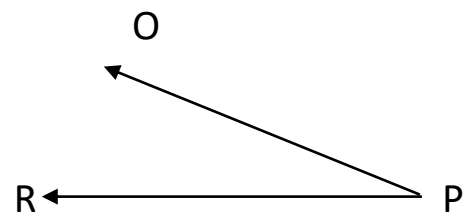


Name 1 :

Name 2 :

Name 3 :

Type :



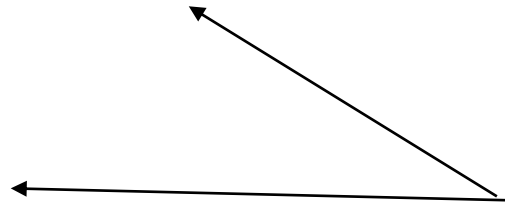
Name 1 :

Name 2 :

Name 3 :

Type :

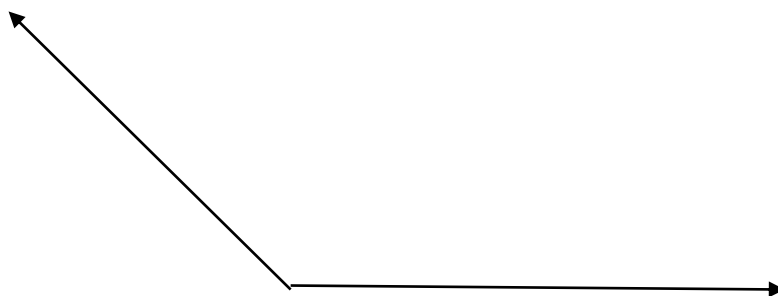
2) Use a protractor to measure the angle. Record both numbers on the protractor scale. Explain which measurement makes sense for the angle and why.



Inside scale measurement

Outside scale measurement

Which measurement makes sense? Explain.



Inside scale measurement

Outside scale measurement

Which measurement makes sense? Explain.

3) Draw the following :

The angle DEF = 50°

The angle STU = 100°

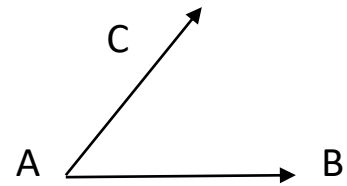
The angle ABC = 90°

The angle XYZ = 75°

4) Choose the right answer :

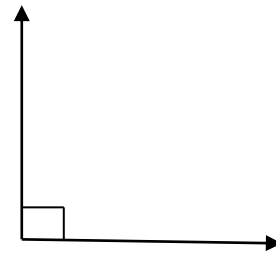
a) The angle shown is

- $\angle ABC$
- $\angle BCA$
- $\angle CAB$
- $\angle CBA$



b) The angle shown is

- a right angle
- an acute angle
- an obtuse angle
- a straight angle



c) The measure of an angle = 89° , then its is

- right angle
- obtuse angle
- acute angle
- straight angle

d) The polygon with 6 sides is called

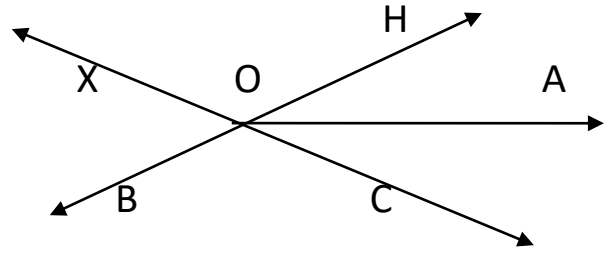
- Triangle
- Quadrilateral
- Pentagon
- Hexagon

e) The rectangle haslines of symmetry

- 1
- 2
- 3
- 4

5) In the opposite figure :

Mention :



a) Two acute angles

.....

b) Two obtuse angles

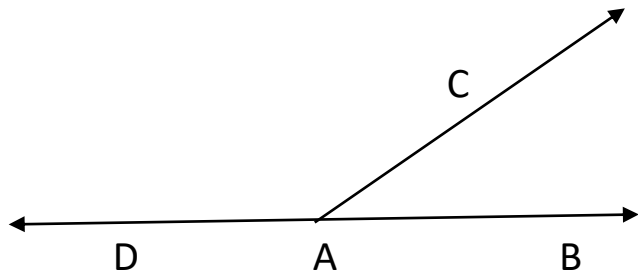
.....

6) What is the type of the following angles

$\angle BAC$

$\angle CAD$

$\angle BAD$

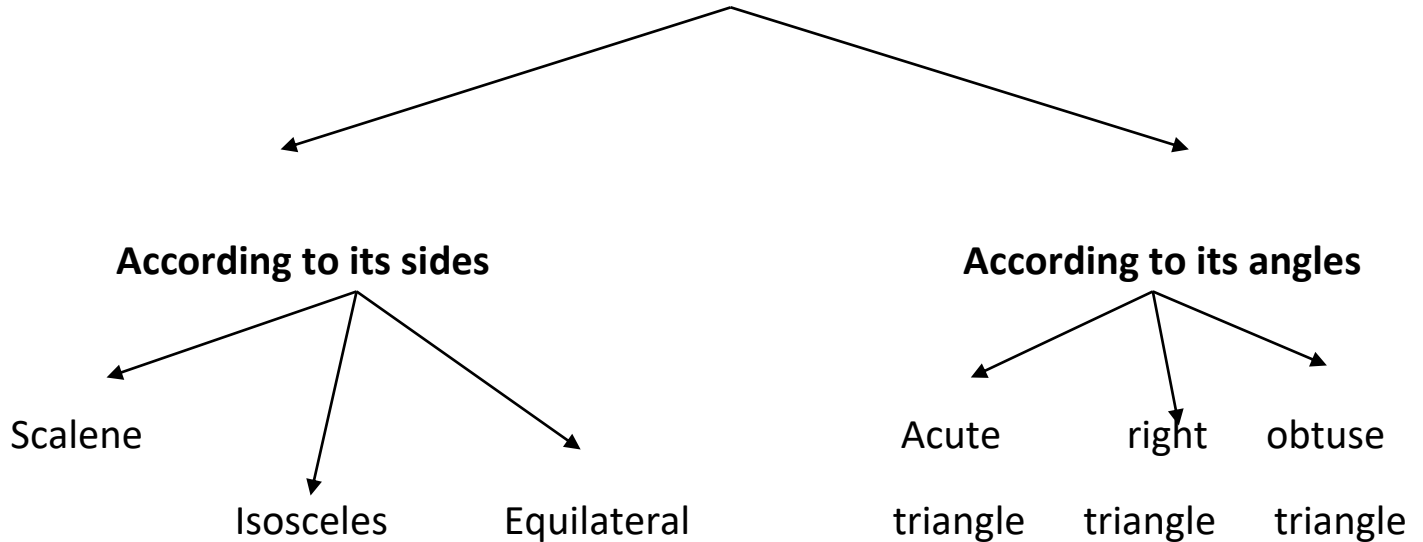


Sheet 2

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



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 90° angle.

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

1) Draw an obtuse angled triangle

2) Draw an acute angled triangle

3) Draw a right angled triangle

4) Complete :

a) A triangle whose sides are different in lengths is called

b) The triangle which contains an obtuse angle is called

c) The triangle which has 2 equal sides in length is called

d) The measure of the right angle = + 30 °

e) The measure of the straight angle =

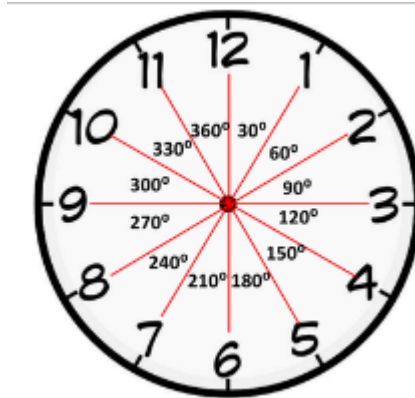
5) Are the angles which their measures are 50° , 60° , 70° can be the angles of one triangle ? why ?

.....
.....

6) Match :

1- The equilateral triangle	Has one right angle
2- An obtuse triangle	Has two equal acute angles
3- A right triangle	All its angles are acute
4- An isosceles triangle	Has one obtuse angle

Sheet 3



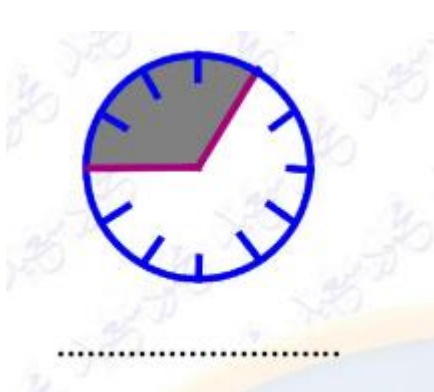
1) Match

- | | |
|------------------|-------------|
| a) At 3 o'clock | 60° |
| b) At 6 o'clock | 120° |
| c) At 8 o'clock | 90° |
| d) At 10 o'clock | 180° |

2) What is the type of each angle :



3) Find the measure of the colored angle in degrees in each clock



Final revision

1) Complete :

a) The expanded form of four and sixty two hundredths is

b) $\frac{7}{\dots} = 1$

c) $8.4 = \dots\dots\dots$ tenths

d) $\frac{2}{5} \times \frac{9}{9} = \dots\dots\dots$

e) $\frac{24}{33} = \frac{\dots}{11}$

f) $4\frac{5}{6} - 1\frac{1}{6} = \dots\dots\dots$

g) $\frac{5}{10} + \frac{3}{100} = \dots\dots\dots$

h) $2\frac{3}{7} + 1\frac{4}{7} = \dots\dots\dots$

i) $4 \times \frac{1}{9} = \dots\dots\dots$

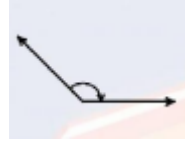
j) $3 + 0.2 + 0.01 = \dots\dots\dots$

k) $3\frac{1}{5} = \dots\dots\dots$ Improper fraction

l) $\frac{7}{12} \times 0 = \dots\dots\dots$

m) The place value of the digit 6 in 3.26 is

n) The value of the digit 4 in 20.34 is



- o) The opposite angle is angle
- p) has no end point
- q) All perpendicular lines are also
- r) $\frac{1}{2} + 0.63 = \dots\dots\dots$ as decimal
- s) $0.32 = \dots\dots\dots$ as fraction in simplest form

2) Choose the right answer :

a) Which of the following is a unit fraction

- ($\frac{2}{3}$, $\frac{1}{5}$, $\frac{3}{7}$, $1\frac{1}{4}$)

b) $\frac{7}{10} + \frac{2}{10} = \frac{\dots\dots}{100}$

- (9 , 90 , 5 , 50)

c) Which of the following fractions is less than half?

- ($\frac{10}{10}$, $\frac{1}{4}$, $\frac{4}{8}$, $\frac{3}{4}$)

d) $5 = \dots\dots\dots$ hundredths

- (0.05 , 50 , 500 , 5)

e) $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} = \frac{1}{6} \times 4$






- (true , false)

g) which of the following is an improper fraction


- ($3\frac{1}{5}$, $\frac{4}{9}$, $\frac{1}{6}$, $\frac{4}{3}$)

h) which of the following shows the identity property of multiplication

- (0×4 , $\frac{2}{3} \times 1$, $\frac{3}{8} \times \frac{8}{3}$, $\frac{3}{4} + 0$)

i) This is read as  ( ,  ,  , )

j) $\frac{3}{9}$ is a/an Fraction (improper , proper , mixed , unit)

k) The opposite shape is 

(parallelogram , rhombus , rectangle , trapezium)

3) Write the required forms for the decimal 3.27

Word form =

Unit form =

Expanded form =

4) Ahmed painted $\frac{5}{11}$ of a wall with blue .What is remainder of the wall to be painted

.....

5) Match :

a) $\frac{1}{3} + \frac{1}{3} + \frac{1}{3}$

$\frac{2}{5}$

b) Two fifths

one

c) $\frac{2}{7} + \frac{3}{7}$

$\frac{3}{6}$

d) $\frac{1}{2} = \dots\dots$

$\frac{5}{7}$

6) Arrange in descending order :

$$\frac{5}{10} , \frac{5}{12} , \frac{5}{11} , \frac{5}{15} , \frac{5}{7}$$

.....

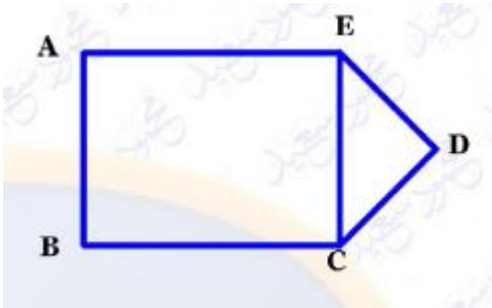
$$0.5 , 2\frac{1}{4} , 1.09 , \frac{1}{2}$$

.....

7) Farah had $\frac{7}{10}$ of a meter , she bought $\frac{18}{100}$ of a meter
How much meters did she have in all

.....

8) From the figure :



AB is parallel to

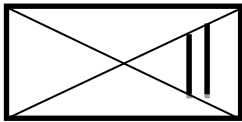
AB is perpendicular to

CD is intersecting with

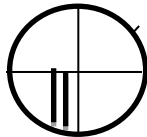
CD intersects ED at point

1) Choose the right answer :

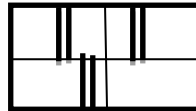
a) The model which represents two fourths is



or



or



or



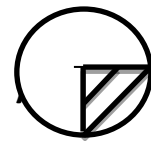
b) Which relation is correct ?

($\frac{7}{12} > \frac{7}{9}$ or $\frac{7}{8} < \frac{7}{10}$ or $\frac{7}{13} < \frac{7}{11}$ or $\frac{7}{15} > \frac{7}{9}$)

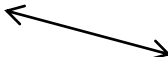
c) $\frac{3}{8} = \dots\dots\dots$ ($\frac{1}{4} + \frac{1}{4} + \frac{1}{4}$ or $\frac{1}{8} + \frac{1}{8} + \frac{1}{8}$ or $\frac{1}{8} + 2$ or $\frac{2}{8} + 1$)

d) The angle which represents the colored part equals

(30° , 60° , 90° , 120°)



e) $5.03 \dots\dots\dots 5 + 0.3$ ($<$, $>$, $=$)

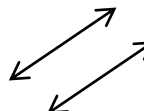
f) The name of  is(line , ray , line segment , angle)

g) Which of the following is an improper fraction ?

($\frac{1}{5}$, $\frac{11}{2}$, $5\frac{1}{2}$, $\frac{3}{7}$)

2) Complete :

a) $\frac{23}{6} = \dots\dots\dots$ as mixed number

b) The two lines  are

c) The unit form of : 23.79 is

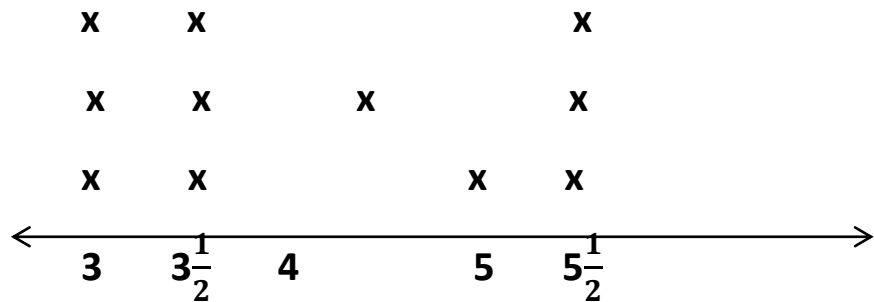
d) $9.34 = \dots\dots\dots + \dots\dots\dots + \dots\dots\dots$

e) The pentagon has sides

f) $\frac{6}{16} = \frac{\dots\dots}{8}$

g) The triangle has two equal sides

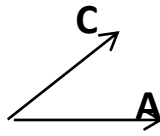
h) The opposite line plot represents the lengths of some trees by meter then the length represents the smallest number of trees is



Key : x = 1 tree

3) Choose the right answer :

a) $\frac{3}{9} + \frac{6}{9} = \dots\dots\dots$ ($\frac{3}{15}$, $\frac{9}{18}$, 1 , $\frac{6}{9}$)

b) The name of the opposite angle  is
 ($\angle ACB$ or $\angle CAB$ or $\angle BAC$ or $\angle ABC$)

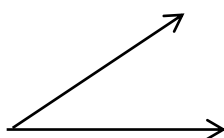
c) $1 - \frac{10}{11} = \dots\dots\dots$ (0 , $\frac{1}{11}$, $\frac{1}{10}$, $\frac{11}{11}$)

d) Which of the following is not equivalent to $1\frac{3}{10}$
(1.3 , 1.30 , 1.03 , $1\frac{30}{100}$)

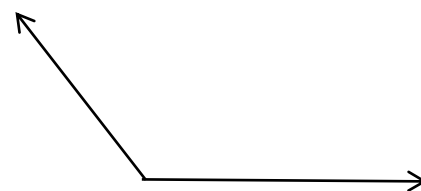
e) Which of the following shows an acute angle ?



or



or



f) $\frac{7}{12}$ is closer to the benchmark fraction (1 , $\frac{1}{2}$, 0)

g) Which of the following can be represented by a double bar graph ?

- Favorite animal
- marks of Ahmed in Math
- our heights
- marks of friends in Math and Arabic

4A) Aly has $7\frac{3}{5}$ cookies , he gave $3\frac{1}{5}$ to his sister .Find the left of cookies
With Aly ?

B) Abir had $\frac{8}{10}$ of meter of cloth , she bought $\frac{25}{100}$ of meter .
How much of meter did she have in all ?

C) Using your protractor , draw an acute angle with measure 60°

D) Represent these data by bar graph :

Fruit	Apple	Orange	Mango	Banana
Number	2	5	4	3

