Geel 2000 Language Schools
Math Department
Second Term
Prim. 3

2024/2025

Name :--

Class--

Lesson 1

Associative property of multiplication

Complete the missing number using the Associative property :

a) $5 \times (2 \times 6) = (5 \times 2) \times 6$

$5 \times \ldots\ldots\ldots = \ldots\ldots\ldots \times 6$

$\ldots\ldots\ldots = \ldots\ldots\ldots$

b) $10 \times (4 \times 2) = (10 \times 4) \times 2$

$\ldots\ldots \times \ldots\ldots\ldots = \ldots\ldots\ldots \times \ldots\ldots\ldots$

$\ldots\ldots\ldots = \ldots\ldots\ldots$

c) $(2 \times 5) \times 9 = 2 \times (5 \times \ldots\ldots\ldots)$

d) $(3 \times 4) \times 7 = 3 \times (4 \times \ldots\ldots\ldots)$

e) $(\ldots\ldots\ldots \times 7) \times 2 = 5 \times (7 \times 2)$

f) $(4 \times 6) \times 8 = 4 \times (\ldots\ldots\ldots \times 8)$

g) $(9 \times \ldots\ldots) \times 3 = 9 \times (5 \times 3)$

h) $(4 \times \ldots\ldots) \times 7 = 4 \times (5 \times \ldots\ldots)$

i) $(2 \times 5) \times \ldots\ldots = 2 \times (\ldots\ldots \times 9)$

Lesson 2

<u>Distributive property of multiplication</u>

Complete the missing number using the distributive property :

a) $9 \times 15 = 9 \times (......... + ...)$

$= (9 \times ....) + (9 \times ....)$

$= ....+ .... = ...$

b) $4 \times 17 = 4 \times (10 + ...)$

$= (4 \times ....) + (4 \times ....)$

$= ....+ .... = ...$

c) $5 \times 18 = 5 \times (......... + ...)$

$= (5 \times ....) + (5 \times ....)$

$= ....+ .... = ...$

d) $6 \times 14 = 6 \times (......... + ...)$

$= (6 \times ....) + (6 \times ....)$

$= ....+ .... = ...$

e) $3 \times 15 = 3 \times (10 + ...)$

$= (3 \times ....) + (3 \times ....)$

$= ....+ .... = ...$

Lesson 3

Estimating multiplication

a)   **4×8**

 Estimation   The actual product

is………………   4×8=………

b)   **7×2×5**

Estimation   the actual product

Is………………   ………………

 c)   **4 × 3 × 2**

Estimation   the actual product

Is………………   ………………

d)   9 x 3

Estimation   the actual product

Is………………   ………………

Lesson 4 & 5

Application on multiplication and division

 Complete :-

a) 4 , 10 , 40

4 × …….. = 40

10 × …….. = 40

40 ÷ …….. = 4

…….. ÷ 4 = 10

b) 7 , 8 , 56

7 × …….. = 56

8 × …….. = 56

56 ÷ …….. = 7

…….. ÷ 8 = 7

c) 3 , 15, 5

……… X ……… = ……….

……… X ……… = ……….

……… ÷ ……… = ……….

……… ÷……… = ……….

d) 35 , 7 , 5

……… X ……… = ……….

……… X ……… = ……….

……… ÷ …….. = ……….

……… ÷ …….. = ……….

Read, then solve:

- A father distributed 60 pounds equally among his five sons. What is the share of each son?

Equation : ……………………………………………………………………

- A mother distributed 36 oranges in 9 plates. How many oranges in each plate?

Equation : ……………………………………………………………………

- A farmer picked 21 flowers and put them equally in 7 baskets. How many flowers in each basket?

Equation : ……………………………………………………………………

- A teacher wants to divide 20 pupils into 2 equal sets. How many pupils in each set?

Equation : ……………………………………………………………………

- Huda distributed 30 candies equally among 6 friends. How many candies each of them took?

Equation : ……………………………………………………………………

Lesson 6

Perimeter of each of a square and rectangle:

Remember: perimeter is a liner measurement of the distance around the shape.

Square
It has:

4 sides equal in length

Perimeter

= side + side +side + side

= **4 x side**

side length = perimeter ÷ 4

Rectangle
It has:

4 sides (2 short with the same length- 2 long with the same length)

Perimeter

= length + width + length + width

= 2 x length + 2 x width

= **2 x (length + width)**

Length = (perimeter ÷ 2) – width
width = (perimeter ÷ 2) – Length

Find the perimeter of each of the following figures:
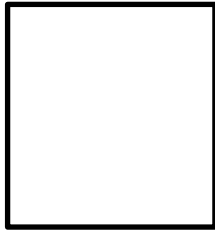
5cm

Perimeter = ...

=.......................

3cm

4cm

Perimeter = ...

=.......................

3cm

Perimeter = ...

=.......................

2cm

6cm

Perimeter = ...

=.......................

1-Find the side length of each shape :

Perimeter = 20cm

Side=……………
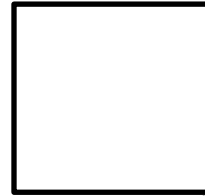
Perimeter = 12cm

side=………………

3-Find the missing length of rectangle:

2cm

?

Perimeter = 10 cm

=………………
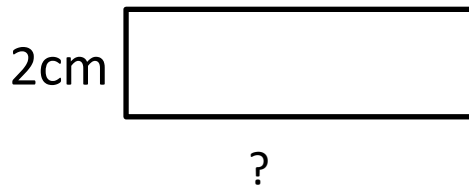
4cm

?
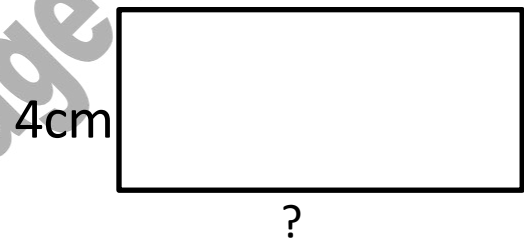
Perimeter = 20cm

=………………

4-Find the missing width of rectangle:

7cm

?
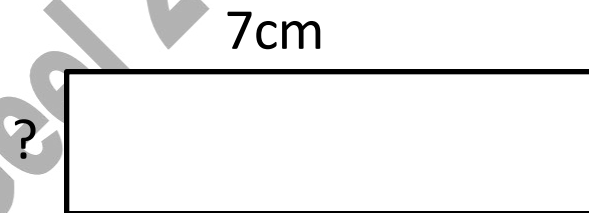
Perimeter = 18 cm

=…………………………

Lesson 7 & 8

Two-step story problems

Addition: add, sum, in all, plus, total, altogether

Subtraction: subtract, remainder, difference, less than, minus, left.

Multiplication: multiply , product , times , twice , triple

Division: divide , equally , distribute

- Solve each problem

1) Ahmed earns L.E10 daily as a gardener, last Friday he got sick and he didn't work. Find the total amount of money that he earned this week.

=……………………………………………………

=……………………………………………………

2) Mrs Lobna bought 3 boxes of chocolate. Each box contains 6 pieces. After sharing the chocolate equally among the students,she has 2 pieces of chocolate left. Howmany students are there in Mrs.Sally's class?

=……………………………………………………….

=……………………………………………………….

3) Samar bought 24 seeds. She has 5 pots. She wants to plant 3 seeds in each pot. How many more pots does Leilaneed to plant all of her seeds?

=…………………………………………………………

=……………………………………………………….

4) Nour bought a box containing 18 pieces of fruits. The box includes an equal number of figs, bananas and oranges. She ate all the figs. How many pieces of fruits did she have left?

=…………………………………………………………

=…………………………………………………………

Lesson 9

Read and check the answer ,then solve the problem if it is incorrect:

1_Khalid had 3 bags of Oranges. Each bag contained 4 Oranges he had also 8 Oranges that were not in the bag. How many Oranges did Khalid have in all?

= the number of oranges is = 4+8 =12 , 12x3 = 36 oranges

Is that correct ◯ , not correct ◯

……………………………………………………………………………

……………………………………………………………………………

……………………………………………………………………………

2_Nour had 25 pieces of candy. Her friend gave her 9 more . She ate 8 pieces of them . How much candy did Nour have in all?

= the number of candy is = 25 +9 = 34 , 34-8 = 26 candy

Is that correct ◯ , not correct ◯

……………………………………………………………………………

…………………………………………………………………………

Exercise on chapter 7

Choose.

a. $(2 \times 5) \times 6 =$ _____ $\qquad$ $(3 \times 6$ or 10×6 or 7×6 or $25 \times 6)$

b. $(2 \times 3) \times$ _____ $= 48$ $\qquad$ $(12$ or 6 or 8 or $4)$

c. _____ $\div 4 = 7$ $\qquad$ $(3$ or 6 or 12 or $28)$

d. _____ $\times 7 = 56$ $\qquad$ $(9$ or 7 or 8 or $6)$

e. $40 \div$ _____ $= 4$ $\qquad$ $(44$ or 10 or 36 or $4)$

f. The perimeter of square = side length $\times$ _____ $\qquad$ $(2$ or 3 or 4 or $6)$

Complete.

a. The perimeter of rectangle = $(L + W) \times$ _____

b. $3 \times 4 \times 5 = 3 \times (4 \times$ _____ $)$

c. $7 \times 9 = (7 \times 5) + (7 \times$ _____ $)$

d. $5 \times$ _____ $= 20$

e. _____ $\div 3 = 6$

f. If $24 \div 4 = 6$, then _____ $\times 6 = 24$

Solve for the unknown in the problems below.

a. $(3 \times 2) \times$ _____ $= 36$ $\qquad$ b. $(8 \times 3) \times$ _____ $= 48$

c. $2 \times (5 \times$ _____ $) = 50$ $\qquad$ d. $7 \times (12 \times$ _____ $) = 0$

e. $(8 \times 3) \times$ _____ $= 48$ $\qquad$ f. $10 \times (6 \times$ _____ $) = 600$

g. $(9 \times 7) \times$ _____ $= 63$ $\qquad$ h. $(4 \times 2) \times$ _____ $= 88$

---

a. Find side length of square if its perimeter is 32 cm

_____

_____

b. Find the length of the rectangle whose width is 5 m and perimeter is 22 m

_____

_____

Lesson 1

More fractions

1- Circle the shapes that are divided into equal parts.
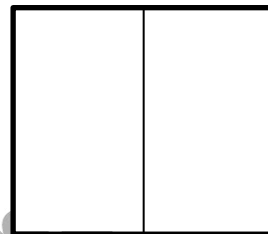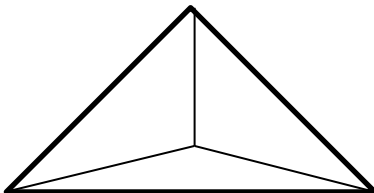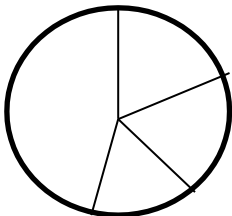
2- Draw the divide each shape as required:

3 equal parts (third)   6 equal parts (sixths)
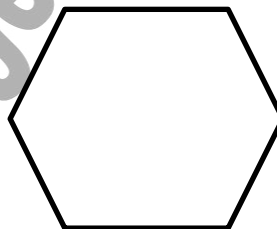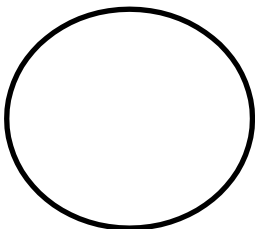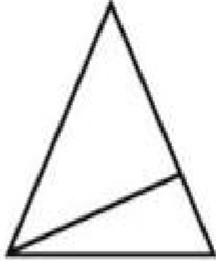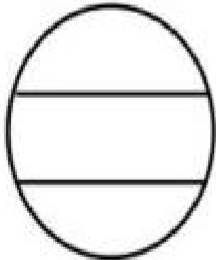
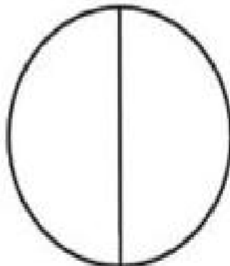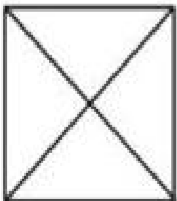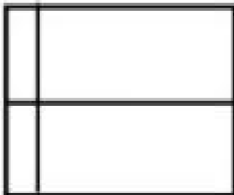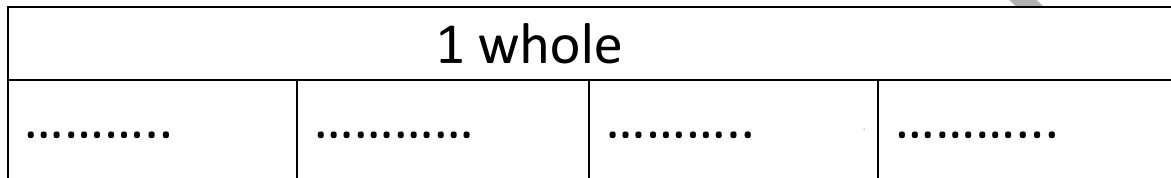3- Match the picture of the fraction to its name:
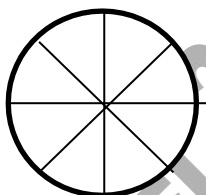
Thirds
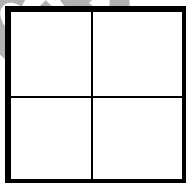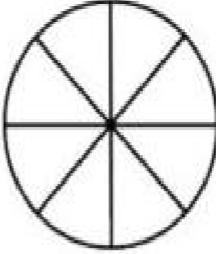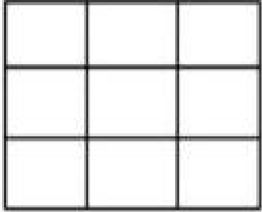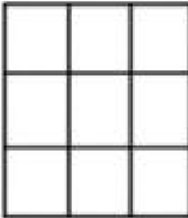
Eighths
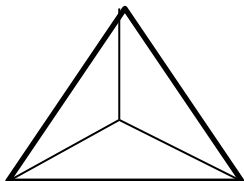
Fourths

Choose the correct answer : -

1. equal / not equal

2. equal / not equal

3. equal / not equal

4. equal / not equal

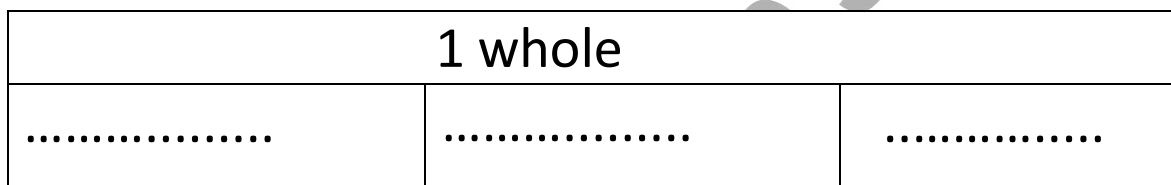5. equal / not equal

6. equal / not equal

7. equal / not equal

8. equal / not equal

9. equal / not equal

10. equal / not equal

Lesson 2 & 3

Exploring unit fractions
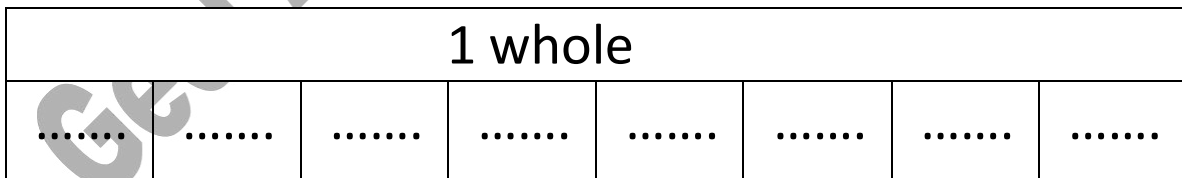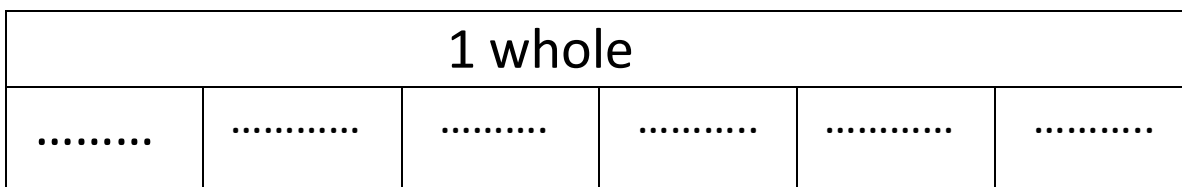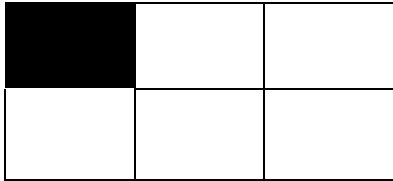
Find the missing fraction:

a.

1 whole			
………..	………….	………..	………….

b.

1 whole		
………………	………………	…………….

c.

1 whole				
……..	………..	………	………	………

d.

1 whole							
…….	…….	…….	…….	…….	…….	…….	…….

e.
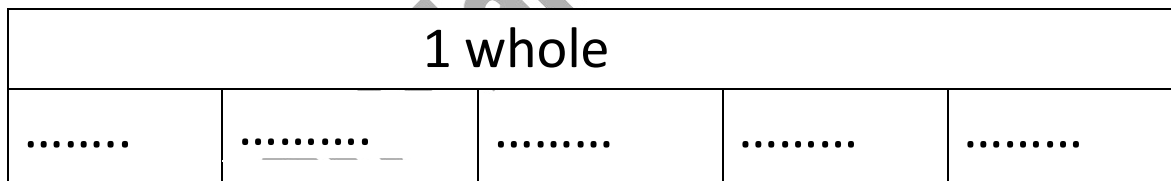
1 whole					
………	………….	……….	………….	………….	…………

1_ Write the fraction that represents the shaded part, then Write it in word:

The fraction :………

In words: …………..
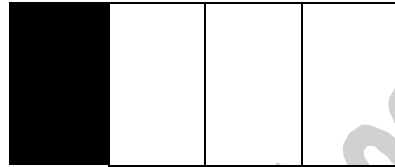
The fraction : ………

In words : ………….

The fraction:……….
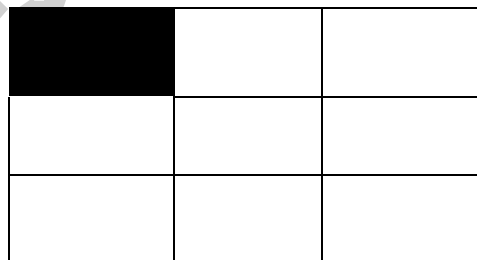
In words: …………..

The fraction: ………..

In words: …………..

Lesson 4
__Comparing unit fractions__

Compare using $(<, >, =)$:-

$$\frac{1}{2} \ldots \frac{1}{4} \qquad\qquad \frac{1}{4} \ldots \frac{1}{3} \qquad\qquad \frac{1}{3} \ldots \frac{1}{2}$$

$$\frac{1}{8} \ldots \frac{1}{4} \qquad\qquad \frac{1}{10} \ldots \frac{1}{2} \qquad\qquad \frac{1}{2} \ldots \frac{1}{12}$$

$$\frac{1}{10} \ldots \frac{1}{5} \qquad\qquad \frac{1}{8} \ldots \frac{1}{9} \qquad\qquad \frac{1}{7} \ldots \frac{1}{5}$$

__Put > ,< :-__

① $\dfrac{1}{11}$ ___ $\dfrac{1}{10}$

② $\dfrac{1}{8}$ ___ $\dfrac{1}{3}$

③ $\dfrac{1}{9}$ ___ $\dfrac{1}{4}$

④ $\dfrac{1}{3}$ ___ $\dfrac{1}{6}$

⑤ $\dfrac{1}{11}$ ___ $\dfrac{1}{12}$

⑥ $\dfrac{1}{7}$ ___ $\dfrac{1}{11}$

⑦ $\dfrac{1}{12}$ ___ $\dfrac{1}{9}$

⑧ $\dfrac{1}{6}$ ___ $\dfrac{1}{8}$

⑨ $\dfrac{1}{7}$ ___ $\dfrac{1}{10}$

⑩ $\dfrac{1}{11}$ ___ $\dfrac{1}{6}$

⑪ $\dfrac{1}{7}$ ___ $\dfrac{1}{9}$

⑫ $\dfrac{1}{6}$ ___ $\dfrac{1}{9}$

Lesson 5

Circle the smaller:

$\frac{1}{7}$	1	$\frac{1}{5}$	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{1}{6}$
$\frac{1}{9}$	$\frac{1}{3}$	$\frac{1}{11}$	$\frac{1}{8}$	$\frac{1}{12}$	$\frac{1}{10}$
$\frac{1}{4}$	$\frac{1}{5}$	1	$\frac{1}{2}$	$\frac{1}{3}$	$\frac{1}{7}$
$\frac{1}{2}$	$\frac{1}{3}$	$\frac{1}{11}$	$\frac{1}{12}$	$\frac{1}{7}$	$\frac{1}{10}$

Put (>) or (<):

A	$\frac{1}{2}$	$\bigcirc$	$\frac{1}{3}$	E	$\frac{1}{10}$	$\bigcirc$ $\frac{1}{3}$
B	$\frac{1}{10}$	$\bigcirc$	$\frac{1}{7}$	F	$\frac{1}{7}$	$\bigcirc$ $\frac{1}{2}$
C	$\frac{1}{2}$	$\bigcirc$	$\frac{1}{7}$	G	$\frac{1}{2}$	$\bigcirc$ $\frac{1}{4}$
D	$\frac{1}{2}$	$\bigcirc$	1	H	$\frac{1}{9}$	$\bigcirc$ $\frac{1}{4}$

Lesson 6

1_Read and solve:

❖ Yassin likes to eat a lot of pie. His friend told him he could have $\frac{1}{2}$ of a pie (A) or $\frac{1}{2}$ of a pie (B). Which pie should Yassin choose if he wants to eat a lot of pie? The apple pie = …………………

(A)   (B)

❖ Malek and Mona donated with half of what they had, Malek had L.E. 100 and Mona had L.E. 50. Which of them donated less? …………………

2. write the correct answers:

Which is longer, half of a cup or half of a jar? ……………

Which is longer, half of a day or half of week? ....

Which is more, half of an apple or half of berries? ………

Which is more, half of a cookie or half of a cake? ....

Which is more, half of 6 Oranges or half of 4 Oranges?.......

Answer the questions:

1. How many halves in the whole one? ………………
2. How many fourths in the whole one? ………………
3. How many sevenths in the whole one? ………………
4. How many thirds in the whole one? ………………
5. How many ninths in the whole one? ………………
6. How many eighths in the whole one? ………………
7. How many sixths in the whole one? ………………
8. How many fifths in the whole one? ………………
9. How many tenths in the whole one? ………………

Read the directions for each shape. Then, answer the question:

A. How many halves make one whole? …………………
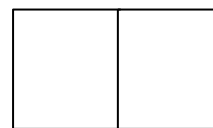
B. How many thirds make one whole? …………………
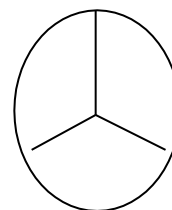
C. How many fourths make one whole? …………………
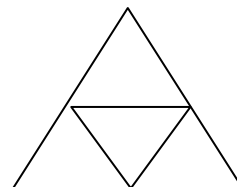
Lesson 7

a)

$\frac{1}{2}$ of 6 = ...

Because: ....

b)

$\frac{1}{2}$ of 8 = ...

Because: ....

c)

$\frac{1}{4}$ of 12 = ...

Because: ....

d)

$\frac{1}{3}$ of 9 = ...

Because: ....

e)

$\frac{1}{4}$ of 16 = ...

Because: ....

f)
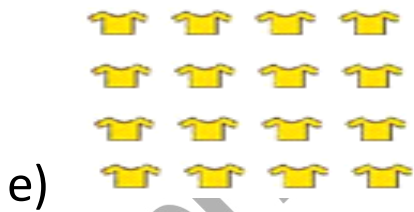
$\frac{1}{5}$ of 5 = ...

Because:...............

Lesson 8 & 9

Answer the following :-

1. What is the third of 18 candies? ....

2. What is the half of 20 balloons? ....

3. What is the fourth of 16 pupils? ....

4. What is the sixth of 30 books? ....

5. What is the eighth of 18 marbles? ....

6. What is the third of 24 fish? ....

7. What is the sixth of 18 eggs? ....

Answer the questions :-

1. What is the $\frac{1}{2}$ of 18? ....

2. What is the $\frac{1}{4}$ of 20? ....

3. What is the $\frac{1}{7}$ of 21? ....

4. What is the $\frac{1}{3}$ of 15? ....

5. What is the $\frac{1}{6}$ of 24? ....

6. What is the $\frac{1}{9}$ of 72? ....

7. What is the $\frac{1}{8}$ of 16? ....

❖ A mother wants to divide 24 pounds equally among her 4 children .How many pounds will each child get?

Write the fraction that represent the share of each one

....

....

❖ If she divides the pound equally among 3 children, How many pounds will each child get?

Write the fraction that represent the share of each one

....

....

Write the fractions :-

Seventh $\frac{....}{....}$	Fourth $\frac{....}{....}$	Half $\frac{....}{....}$
Third $\frac{....}{....}$	Fifth $\frac{....}{....}$	Ninth $\frac{....}{....}$

Fractions
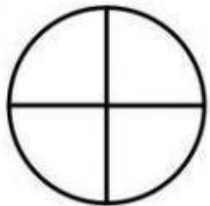
Color $\dfrac{1}{4}$	Color $\dfrac{2}{5}$
Color $\dfrac{1}{3}$	Color $\dfrac{1}{5}$
Color $\dfrac{2}{4}$	Color $\dfrac{3}{4}$
Color $\dfrac{2}{3}$	Color $\dfrac{4}{5}$
Color $\dfrac{3}{5}$	Color $\dfrac{1}{2}$
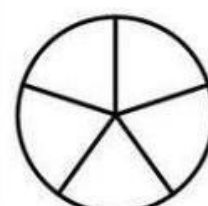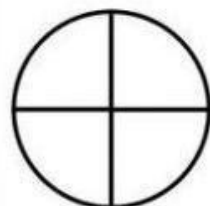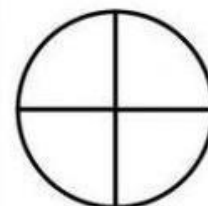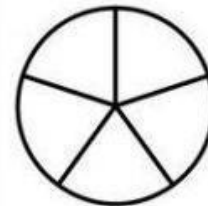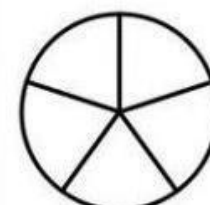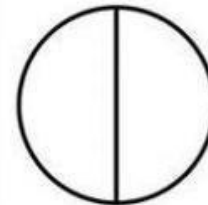
E

Exercise on chapter 8

1 Complete the following.

    a. $(3 \times 5) \times 2 = (3 \times \text{_____}) \times 5$

    b. $\frac{1}{5}$ of 20 is _____

    c. $\frac{3}{3} = \frac{4}{\text{\_\_\_\_}}$

    d. _____ $\div 7 = 3$

    e. The perimeter of square of side length 7 cm equals _____ cm

2 Put (✓) to the correct statement or (✗) to the incorrect statement.

    a. $\frac{1}{3} > \frac{1}{5}$ (   )

    b. $\frac{1}{2}$ of a strawberry = half of orange   (   )

    c. $5 \times 17 = (5 \times 1) + (5 \times 7)$ (   )

    d. A fraction, its denominator is 8, its numerator is 1 is $\frac{1}{8}$ (   )

    e. The perimeter of a rectangle is $(L + W) \times 4$ (   )

3 Choose the correct answer.

    a. $9 \times \text{_____} = 18$ (2 or 9 or 18)

    b. $\frac{1}{7} \bigcirc \frac{1}{9}$ (> or < or =)

    c. $\frac{1}{2}$ of 2 is _____   (4 or 2 or 1)

    d. $24 \div \text{_____} = 4$ (4 or 6 or 8)

    e. $6 \times 9 = (6 \times 3) + \text{_____}$ (6×9 or 6×3 or 6×6)

Lesson 1

Match and complete to represent the required fraction:

a) Fourth
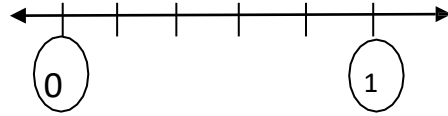
b) Halves
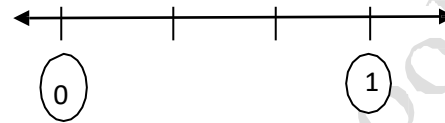
c) Thirds
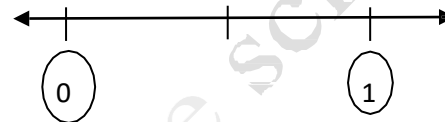
d) Fifths
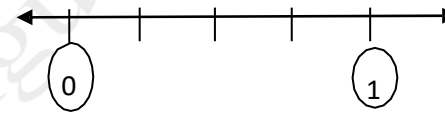
Represent the following fractions on number line:

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

Lesson 2

Read then draw number line to represent your answer:

1) Karim needs to cut 1 meter of rope into 5 equal pieces draw the number line that shows how he could cut the rope
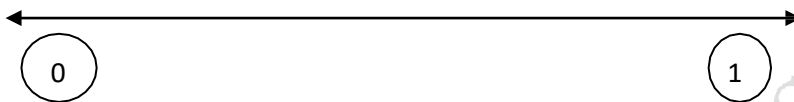

What fraction of the rope represents one part?

2) Sara needs to decorate the wall in her room using 1 meter of pink stickers she divided the stickers into 3equal parts .draw number line to show what she did

What fraction of a whole did she use?

3) Reham is planting carrots in her 1 meter plant box . she divides it into equal parts . each of them $\frac{1}{7}$ meter in length .she planted 1 seed in each part . draw number line to show what she did .
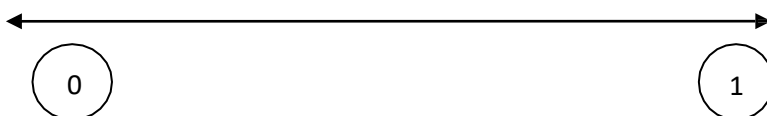
Lesson 3

Represent each fraction on the number line then compare using (> -<-=)

$\frac{1}{4}$ ☐ $\frac{1}{2}$

$\frac{1}{5}$ ☐ $\frac{1}{3}$

$\frac{1}{3}$ ☐ $\frac{1}{4}$

$\frac{1}{2}$ ☐ $\frac{1}{3}$
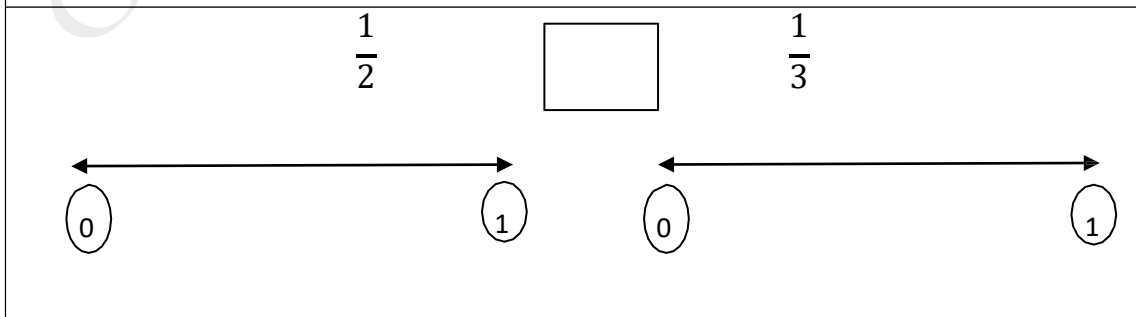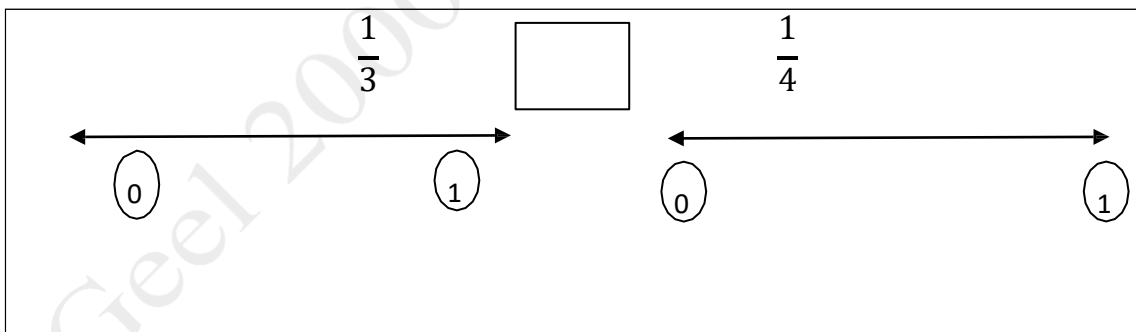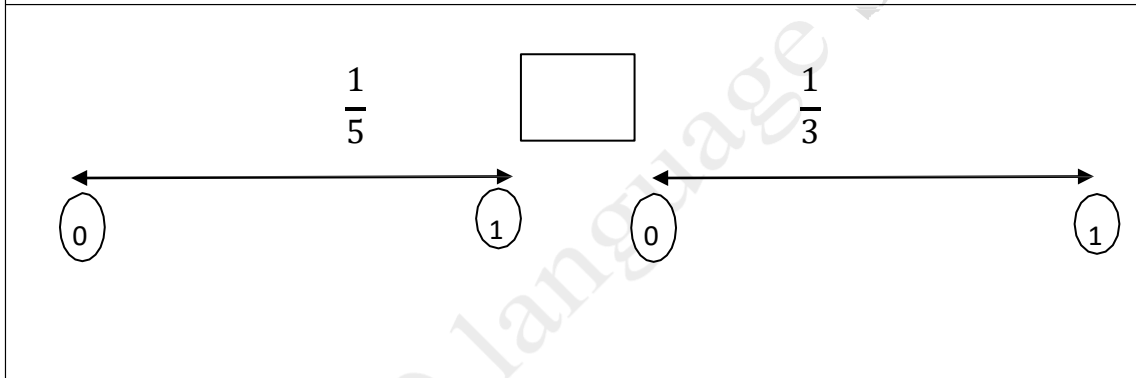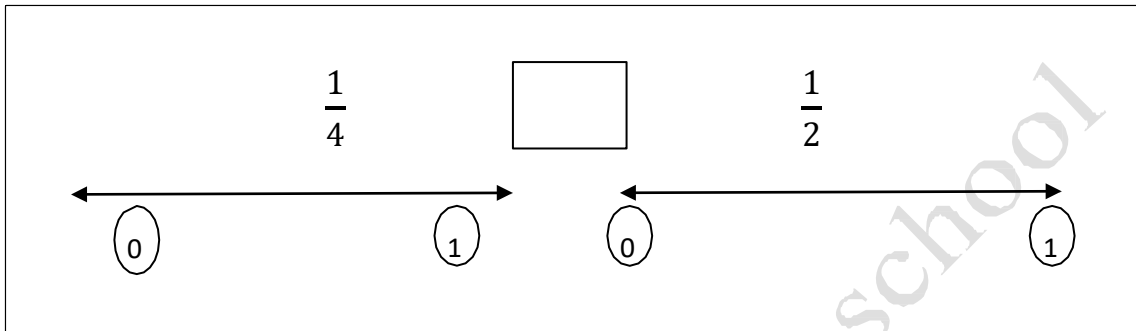
Represent the given fraction then compare between the given fractions (>, < or =):

1)
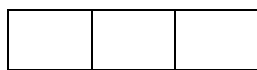
$\dfrac{2}{3}$ ▢ $\dfrac{1}{3}$
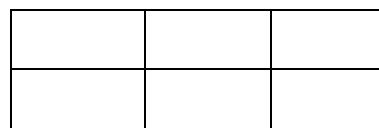
2)
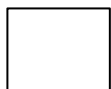
$\dfrac{1}{2}$ ▢ $\dfrac{2}{2}$

3)
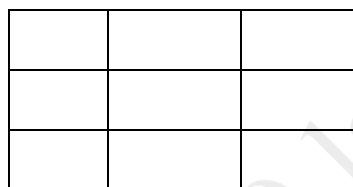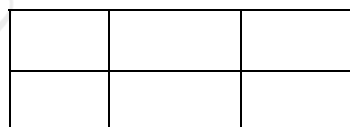
$\dfrac{1}{9}$ ▢ $\dfrac{1}{6}$

4)

$\dfrac{1}{4}$ ▢ $\dfrac{2}{6}$

Lesson 4

proper fractions

The **numerator** is **smaller than** the **denominator**.

numerator $\dfrac{3}{5}$ **denominator**

Proper Fraction
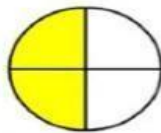
1. $\dfrac{2}{5}$ $\dfrac{2}{4}$ $\dfrac{1}{4}$

2. $\dfrac{2}{3}$ $\dfrac{1}{4}$ $\dfrac{3}{4}$
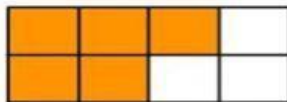
3. $\dfrac{2}{4}$ $\dfrac{5}{6}$ $\dfrac{5}{8}$

4. $\dfrac{1}{3}$ $\dfrac{1}{2}$ $\dfrac{2}{4}$
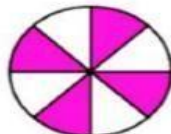
5. $\dfrac{3}{6}$ $\dfrac{3}{5}$ $\dfrac{4}{8}$
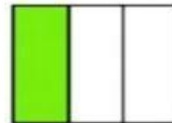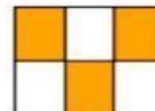
6. $\dfrac{4}{5}$ $\dfrac{1}{3}$ $\dfrac{3}{4}$

7. $\dfrac{5}{6}$ $\dfrac{3}{7}$ $\dfrac{1}{8}$
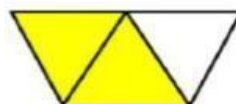
8. $\dfrac{2}{7}$ $\dfrac{4}{8}$ $\dfrac{3}{6}$

9. $\dfrac{2}{4}$ $\dfrac{5}{6}$ $\dfrac{5}{8}$

10. $\dfrac{2}{3}$ $\dfrac{1}{4}$ $\dfrac{3}{4}$

Lesson 5

Circle the greater:

$\frac{2}{5}$	$\frac{3}{5}$	$\frac{4}{7}$	$\frac{3}{7}$	$\frac{4}{5}$	$\frac{3}{5}$
$\frac{2}{10}$	$\frac{1}{10}$	$\frac{4}{9}$	$\frac{5}{9}$	$\frac{3}{11}$	$\frac{5}{11}$
$\frac{3}{8}$	$\frac{5}{8}$	$\frac{1}{6}$	$\frac{5}{6}$	$\frac{2}{7}$	$\frac{3}{7}$
$\frac{1}{3}$	$\frac{2}{3}$	$\frac{1}{4}$	$\frac{3}{4}$	$\frac{7}{12}$	$\frac{5}{12}$

Circle the smaller:

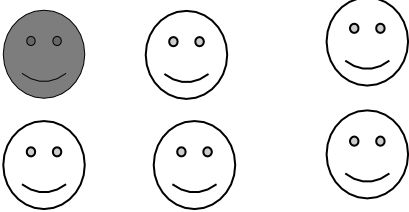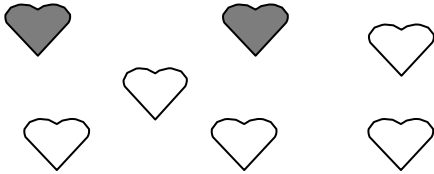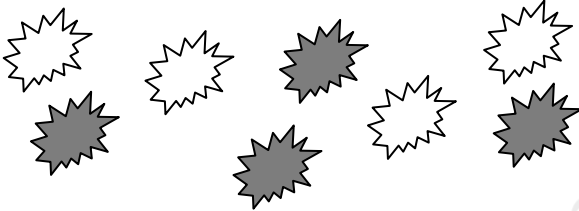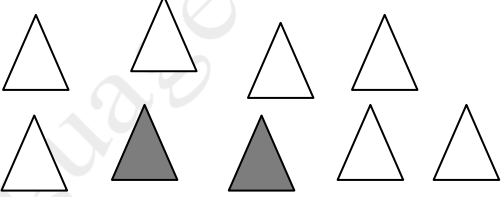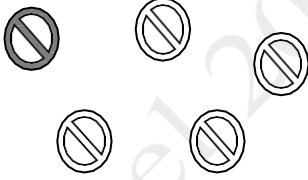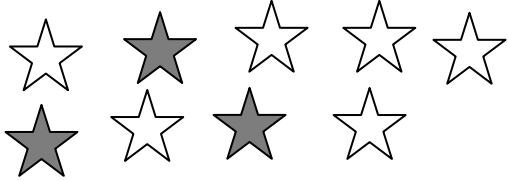|					
$\frac{2}{5}$	$\frac{3}{5}$	$\frac{4}{5}$	$\frac{3}{5}$	$\frac{4}{7}$	$\frac{3}{7}$
$\frac{2}{10}$	$\frac{1}{10}$	$\frac{3}{11}$	$\frac{5}{11}$	$\frac{4}{9}$	$\frac{5}{9}$
$\frac{3}{8}$	$\frac{5}{8}$	$\frac{2}{7}$	$\frac{3}{7}$	$\frac{1}{6}$	$\frac{5}{6}$
$\frac{1}{3}$	$\frac{2}{3}$	$\frac{7}{12}$	$\frac{5}{12}$	$\frac{1}{4}$	$\frac{3}{4}$

Circle the fraction which represents the number of colored objects each set :

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

$$\frac{2}{5} \qquad \frac{1}{4} \qquad \frac{2}{7}$$

$$\frac{4}{8} \qquad \frac{1}{8} \qquad \frac{7}{8}$$

$$\frac{1}{9} \qquad \frac{3}{9} \qquad \frac{2}{9}$$

$$\frac{1}{5} \qquad \frac{1}{4} \qquad \frac{1}{3}$$

$$\frac{3}{4} \qquad \frac{3}{9} \qquad \frac{1}{9}$$

Lesson 6

$\dfrac{2}{4} + \dfrac{1}{4} =$	$\dfrac{2}{5} + \dfrac{1}{5} =$	$\dfrac{2}{7} + \dfrac{2}{7} =$
$\dfrac{3}{8} + \dfrac{2}{8} =$	$\dfrac{2}{9} + \dfrac{5}{9} =$	$\dfrac{3}{4} + \dfrac{1}{4} =$
$\dfrac{2}{6} + \dfrac{1}{6} =$	$\dfrac{2}{3} + \dfrac{1}{3} =$	$\dfrac{2}{9} + \dfrac{1}{9} =$
$\dfrac{1}{3} + \dfrac{2}{3} =$	$\dfrac{4}{5} + \dfrac{2}{5} =$	$\dfrac{5}{8} + \dfrac{2}{8} =$
$\dfrac{1}{10} + \dfrac{4}{10} =$	$\dfrac{4}{12} + \dfrac{3}{12} =$	$\dfrac{1}{8} + \dfrac{2}{8} =$

Lesson 7

$\frac{5}{4} - \frac{2}{4} =$	$\frac{5}{9} - \frac{2}{9} =$	$\frac{4}{6} - \frac{2}{6} =$
$\frac{7}{9} - \frac{2}{9} =$	$\frac{7}{10} - \frac{2}{10} =$	$\frac{9}{5} - \frac{2}{5} =$
$\frac{2}{3} - \frac{1}{3} =$	$\frac{6}{8} - \frac{1}{8} =$	$\frac{5}{8} - \frac{2}{8} =$
$\frac{9}{11} - \frac{2}{11} =$	$\frac{6}{7} - \frac{2}{7} =$	$\frac{5}{4} - \frac{2}{4} =$
$\frac{2}{6} - \frac{1}{6} =$	$\frac{4}{5} - \frac{2}{5} =$	$\frac{2}{6} - \frac{1}{6} =$

Lesson 8

Read then solve:_

1) Sara has four toys. she gave her sister $\frac{1}{4}$ of them. what is the fraction of the left toys ?

....

2) The teacher asked the students to bring 10 pens, Amr brought 1 Karim brought 2 and Ahmed brought 3 what is the fraction which represent s the pens that should be brought?

....

3) which fraction is the smaller $\frac{2}{4}$ or $\frac{1}{4}$?

4) Which fraction is greatest $\frac{3}{5}$ or $\frac{2}{5}$?

Put the sign < or > or = :

A)	$\frac{2}{2}$	.....	1	b)	$\frac{3}{4}$	.....	quarter
c)	$\frac{1}{5}$	.....	third	d)	$\frac{7}{10}$	.....	$\frac{8}{10}$
e)	$\frac{6}{13}$	.....	$\frac{6}{12}$	f)	$\frac{9}{3}$	.....	$\frac{4}{3}$
g)	Half	.....	$\frac{1}{4}$	h)	$\frac{6}{6}$	.....	$\frac{2}{2}$

Exercise on chapter 9

1 Complete.

a. _____ $\times 6 = 42$

b. $5 \times 13 = (5 \times 3) + (5 \times \text{_____})$

c. $\frac{1}{3}$ of $21 = $ _____

d. $1 = \dfrac{9}{\text{_____}}$

e. $\dfrac{\text{_____}}{\text{_____}} - \dfrac{2}{5} = \dfrac{1}{5}$

f. The number of fourths that make one whole = _____

---

2 Put (✔) to the correct statement and (✗) to the incorrect statement.

a. $\frac{3}{7} + \frac{1}{7} = \frac{4}{7}$ (   )

b. $\frac{5}{12} > \frac{5}{11}$ (   )

c. half of a minute = half of an hour (   )

d. $(3 \times 2) \times 4 = 3 \times (4 \times 2)$ (   )

e. The perimeter of square whose side length is 7 cm = 28 cm (   )

---

3 Choose the correct answer.

a. $\frac{4}{7} + \dfrac{\text{_____}}{\text{_____}} = \frac{6}{7}$ $\left(\frac{1}{7} \text{ or } \frac{2}{7} \text{ or } \frac{10}{7}\right)$

b. $\frac{5}{8} - \dfrac{\text{_____}}{\text{_____}} = \frac{1}{8}$ $\left(\frac{4}{8} \text{ or } \frac{6}{8} \text{ or } 4\right)$

c. $3 \times 17 = $ _____ $(3 \times (10 + 7) \text{ or } 3 \times (1 + 7) \text{ or } 3 + (10 \times 7))$

d. _____ $\div 3 = 6$ $(2 \text{ or } 18 \text{ or } 21)$

e. $\frac{2}{17} \bigcirc \frac{5}{17}$ $(> \text{ or } < \text{ or } =)$

f. $\frac{5}{6} \bigcirc \frac{5}{10}$ $(> \text{ or } < \text{ or } =)$

Lesson 1

Color half of the following shapes:
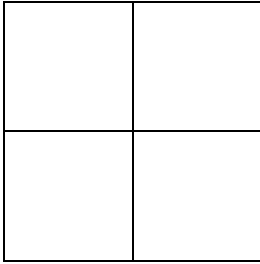
$$\frac{1}{2} = \frac{}{}$$
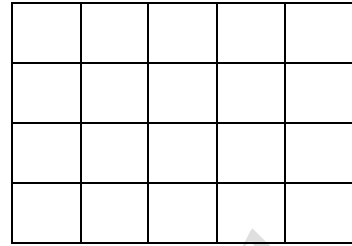
$$\frac{1}{2} = \frac{}{}$$
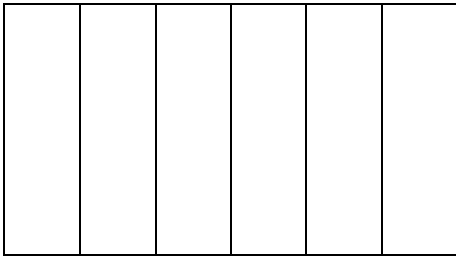
$$\frac{1}{2} = \frac{}{}$$
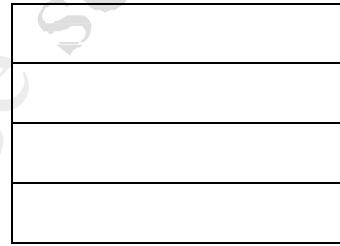
$$\frac{1}{2} = \frac{}{}$$
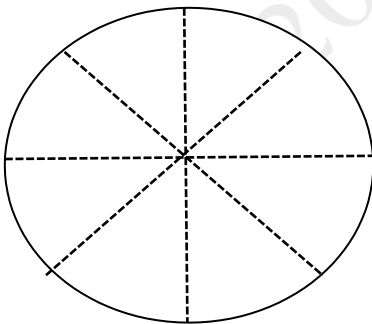
$$\frac{1}{2} = \frac{}{}$$
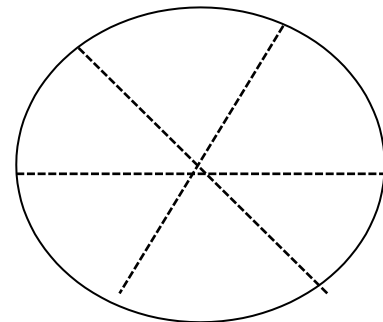
$$\frac{1}{2} = \frac{}{}$$

Lesson 2
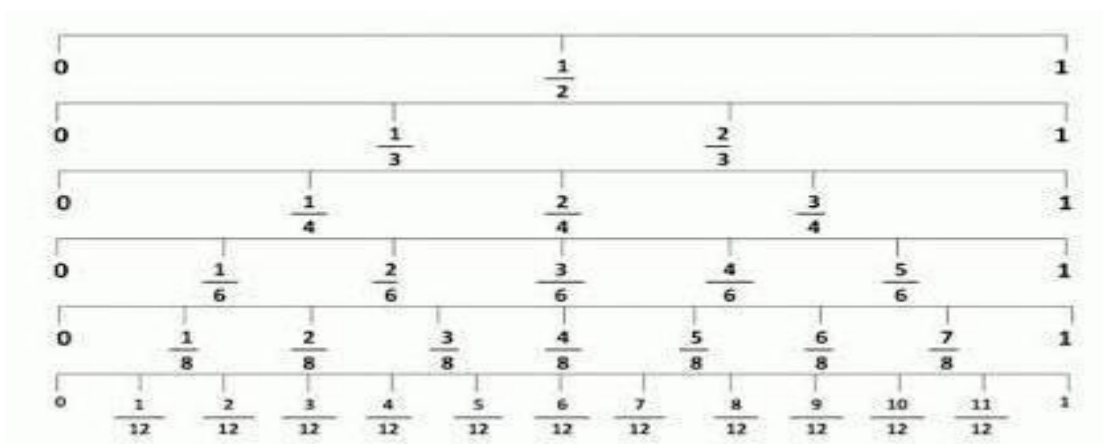
Use the following number lines to show the given equivalent fraction :

← → ← →	$\dfrac{1}{2} = \dfrac{5}{10}$
← → ← →	$\dfrac{1}{2} = \dfrac{2}{4}$
← → ← →	$\dfrac{1}{2} = \dfrac{4}{8}$
← → ← →	$\dfrac{1}{2} = \dfrac{3}{6}$

Complete the following :-

1	$\dfrac{1}{2} = \dfrac{5}{\ldots}$	**2**	$\dfrac{2}{3} = \dfrac{\ldots}{9}$	**3**	$\dfrac{1}{10} = \dfrac{3}{\ldots}$
4	$\dfrac{3}{4} = \dfrac{\ldots}{8}$	**5**	$\dfrac{1}{5} = \dfrac{\ldots}{10}$	**6**	$\dfrac{1}{8} = \dfrac{\ldots}{72}$
7	$\dfrac{7}{7} = \dfrac{49}{\ldots}$	**8**	$\dfrac{2}{4} = \dfrac{\ldots}{40}$	**9**	$\dfrac{5}{5} = \dfrac{\ldots}{7}$
10	$\dfrac{5}{8} = \dfrac{\ldots}{24}$	**11**	$\dfrac{3}{7} = \dfrac{21}{\ldots}$	**12**	$\dfrac{5}{7} = \dfrac{15}{\ldots}$
13	$\dfrac{2}{5} = \dfrac{16}{\ldots}$	**14**	$\dfrac{16}{20} = \dfrac{4}{\ldots}$	**15**	$\dfrac{8}{10} = \dfrac{\ldots}{5}$

Color to represent equivalent fraction:

$$\frac{1}{2} = -$$

$$\frac{1}{2} = -$$

$$\frac{1}{2} = -$$

$$\frac{1}{2} = -$$
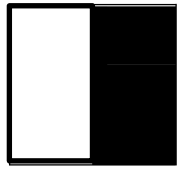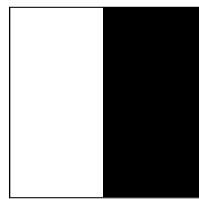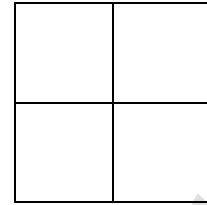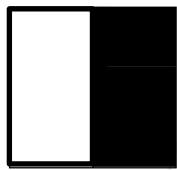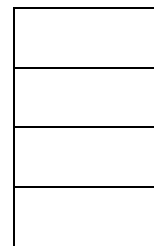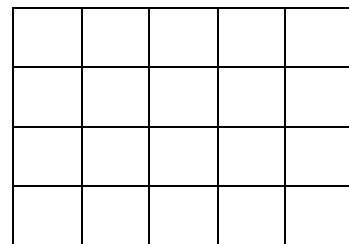
Lesson 3

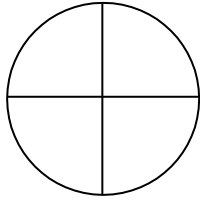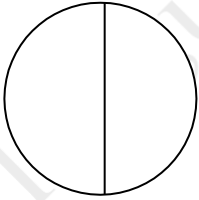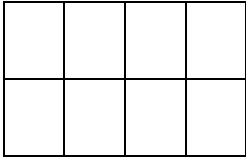$\frac{1}{3}$ is the same as...

$$\frac{1}{3} = \frac{2}{6} = \frac{3}{9} = \frac{4}{12} = \frac{5}{15} = \frac{6}{18}$$

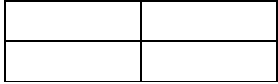## Color to represent the given fraction then circle the correct answer :

1)

$\frac{2}{4}$ $\frac{1}{2}$ Equivalent - not equivalent

2)

$\frac{3}{4}$ $\frac{3}{6}$ Equivalent - not equivalent

3)

$\frac{4}{8}$ $\frac{1}{2}$ Equivalent - not equivalent

Complete the following:

1) $\dfrac{1}{2} = \dfrac{2}{4} = \dfrac{}{6} = \dfrac{}{8}$

2) $\dfrac{1}{4} = \dfrac{}{8} = \dfrac{}{12} = \dfrac{}{16}$

3) $\dfrac{1}{5} = \dfrac{}{10} = \dfrac{}{15} = \dfrac{}{20}$

4) $\dfrac{1}{3} = \dfrac{}{6} = \dfrac{}{9} = \dfrac{}{12}$

Find the missing:

5) $\dfrac{1}{7} = \dfrac{\text{......}}{14}$
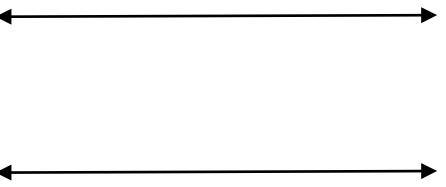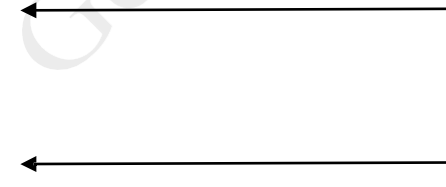
6) $\dfrac{2}{10} = \dfrac{10}{\text{.....}}$

7) $\dfrac{1}{6} = \dfrac{\text{......}}{2\,4}$

8) $\dfrac{3}{4} = \dfrac{\text{......}}{16}$

Lesson 4

Find the equivalent fraction using given number line :

$$\frac{2}{4} = \underline{}$$

$$\frac{1}{2} = \underline{}$$

$$\frac{2}{3} = \underline{}$$

$$\frac{3}{6} = \underline{}$$

Lesson 5

1-Sama and Selim had two cakes .sama cut her cake into five equal parts and ate $\frac{1}{5}$ of it .selim cut his cake into ten equal parts what fraction of cake must Selim eat if he wants to eat the same amount of cake as sama?

solve using picture model and number line.

....
....
....
....
....

2-Dina ate $\frac{3}{4}$ of her bread ,Seif wants to eat the same amount of his bread as Dina, if his bread is cut into 12 equal parts .what is the fraction that represents the pieces of bread he should eat ?

solve using picture model and number line

....
....
....
....
....
....

Lesson 6

Complete:

12	15
.... ÷ .... = ...	.... ÷ .... = ...

27	24
.... ÷ .... = ...	.... ÷ .... = ...

36	24
.... ÷ .... = ...	.... ÷ .... = ...

15	20
.... ÷ .... = ...	.... ÷ .... = ...

21	18
.... ÷ .... = ...	.... ÷ .... = ...

45	42
.... ÷ .... = ...	.... ÷ .... = ...

Lesson 7

Read then solve :

1- shady bought 12 candles and he wanted to share them equally among 3 of his friends .how many candles will each friend take?

12

Equation is :………………….÷………………=……………………

2- Noha reads 21 pages in 7 days .how many pages does she read in each day?

21

Equation is :…………………÷………………=……………………

3- Alaa has 36 cars she wants to put them into groups of 4 .how many groups will she have ?

36

Equation is:…………………….÷………………=…………………..

Lesson 8

Find the missing factor .then write equation:

......×......=.......

......×......=........

......÷......=........

........÷........=.......

......×......=.......

......×......=........

......÷......=........

.......÷......=........

........×......=.........

........×......=........

......÷......=.......

........÷......=.......

........×......=.......

........×......=.......

......÷....... = ...

........÷......=......
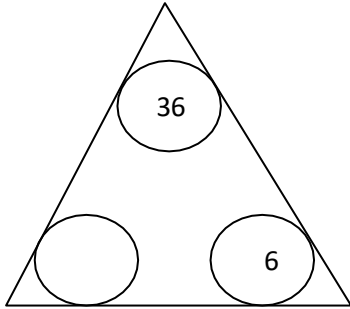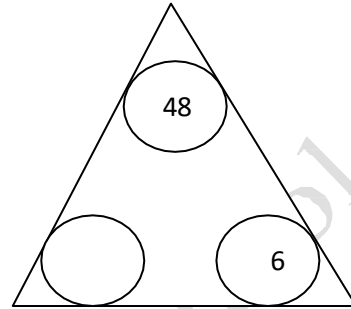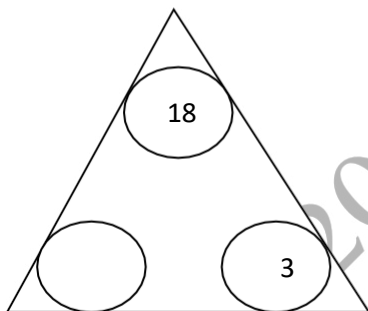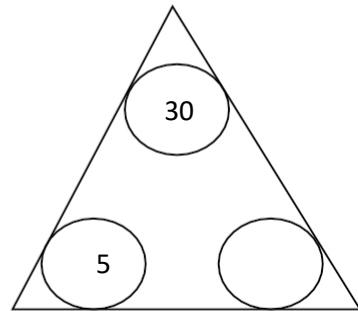
Exercise on chapter 10

1 Complete the following.

a. $\dfrac{3}{5} = \dfrac{\quad}{25} = \dfrac{9}{\quad}$

b. $\dfrac{1}{2} = \dfrac{4}{\quad} = \dfrac{\quad}{12}$

c. $\dfrac{5}{7} = \dfrac{15}{\quad} = \dfrac{\quad}{14}$

d. $\dfrac{1}{3} = \dfrac{\quad}{6} = \dfrac{3}{\quad}$

e. From the opposite

number line $\dfrac{3}{4} = \underline{\qquad}$

2 Choose the correct answer.

a. $\dfrac{2}{7} = \underline{\qquad}$

$\left(\dfrac{4}{21} \text{ or } \dfrac{4}{14} \text{ or } \dfrac{2}{3} \right)$

b. $\dfrac{2}{3}$ and $\dfrac{4}{6}$ are $\underline{\qquad}$

(equivalent or not equivalent)

c. Using opposite model

$\dfrac{1}{2} = \underline{\qquad}$
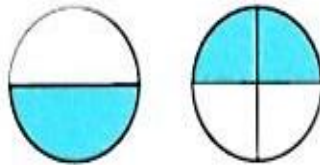
$\left(\dfrac{1}{3} \text{ or } \dfrac{1}{4} \text{ or } \dfrac{2}{4} \right)$

d. $\dfrac{4}{6} = \dfrac{2}{\quad}$

(2 or 3 or 6)

3 Nermin has 18 eggs and wants to put them equally in 3 plates.
How many eggs are there in each plate ?
"Draw to show the division problem in a bar model"

Work area

18

$\underline{\qquad} \div \underline{\qquad} = \underline{\qquad}$

The quotient is $\underline{\qquad}$

Lesson 1

Solve the multiplication problems below:-

$9 \times 0 =$	$12 \times 1 =$	$8 \times 2 =$
$6 \times 3 =$	$11 \times 4 =$	$9 \times 5 =$
$10 \times 6 =$	$7 \times 3 =$	$8 \times 4 =$
$9 \times 7 =$	$10 \times 10 =$	$4 \times 12 =$

Find the factors of the following numbers:

10

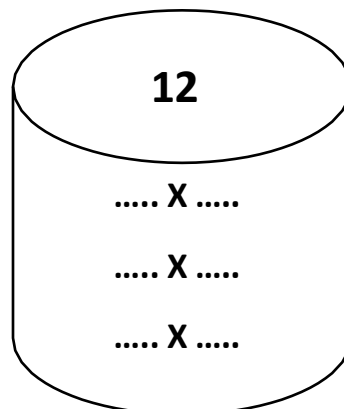..... X .....

..... X .....

18

..... X .....

..... X .....

..... X .....

8

..... X .....

..... X .....

12

..... X .....

..... X .....

..... X .....
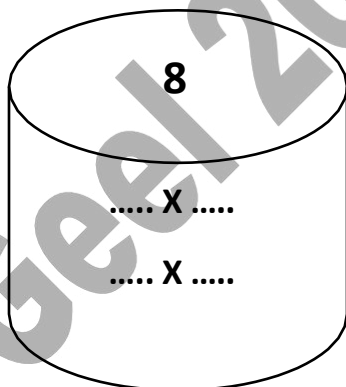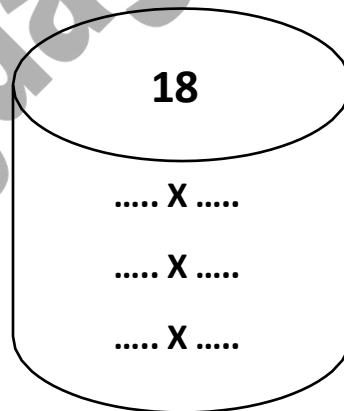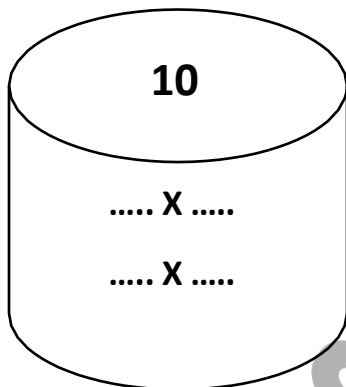
Lesson 2

Complete the following:-

a) $6 \times \boxed{} = 18$

b) $16 \div \boxed{} = 2$

c) $\boxed{} \times 4 = 28$

d) $\boxed{} \div 5 = 3$

Use the following numbers to form a fact family:

a) 3, 5 and 15

……. × …… = …….

……. × …… = …….

……. ÷ …… = …….

……. ÷ …… = …….

b) 6, 7 and 42

……. × …… = …….

……. × …… = …….

……. ÷ …… = …….

……. ÷ …… = …….

c) 8, 1 and 8

……. × …… = …….

……. × …… = …….

……. ÷ …… = …….

……. ÷ …… = …….

d) 4, 9 and 36

……. × …… = …….

……. × …… = …….

……. ÷ …… = …….

……. ÷ …… = …….

Determine the missing number in each fact family:
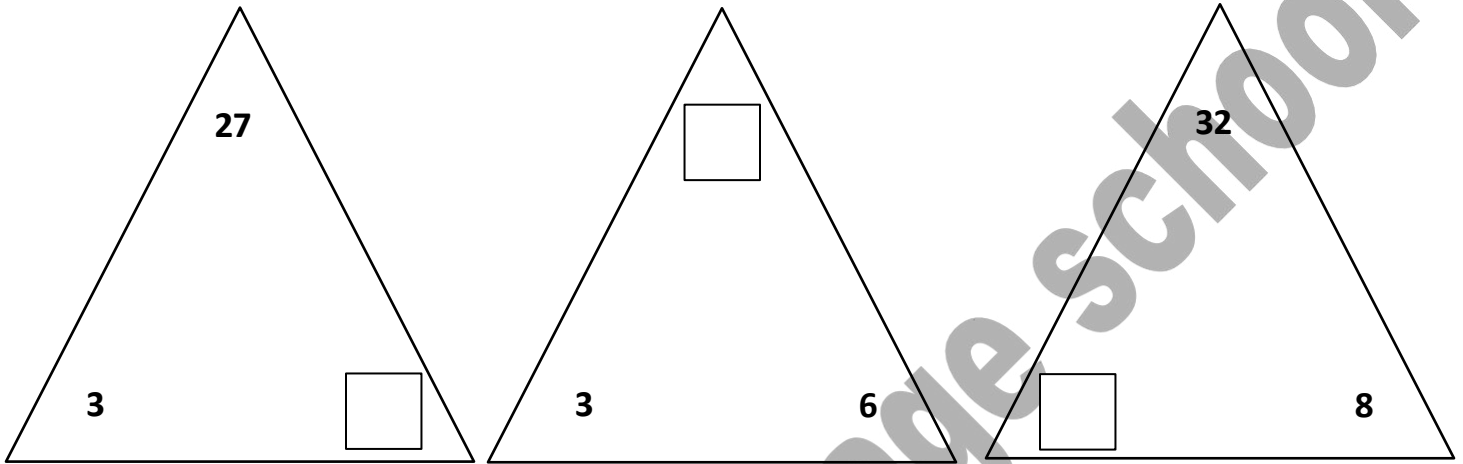
Read and answer:

- Heba gave her friends 24 candies, if she has 4 friends. How many candies are there with each one?

   The number of candies =_____ = _____candy

- Bassem bought a box containing 18 pieces of fruits. The box includes an equal number of figs, bananas and oranges. He ate all the figs. How many pieces of fruits did he have left?

   =..

   =..

Lesson 3

Read and answer:

- Osama wants to buy 6 chocolate bars, if one chocolate bar costs 5 L.E. How much money he will pay?

    =_____=_____pound

- Teacher has 30 balloons which she wants to split it equal between 10 of her students. How many balloons will each student take?

    =_____=_____balloons

- Nada bought 16 fish and she wants to distribute them equally among 4 fish bowls, how many fish will be in each bowl?

    =_____=_____fish

Write a multiplication story problem that could be represented by the equation shown.   3 x 8 = …..

_____

_____

_____

_____

_____

Lesson 4

<u>Read and answer:</u>

- Ahmed wants to distribute 24 bananas among 8 children.
  How many bananas will each child have?

  =_____=_____

- Adam baked 10 pancakes, he shared them equally among 2
  of his friends **.** how many pancakes did his friends take ?

  =_____=_____

- Hadeer bought 9 books she wants to distribute them equally
  between 3 of her friends. How many books will each friend take ?

  =_____=_____

  **<u>Write a division story problem that could be represented by the
  equation shown.</u>**   **54 ÷ 9 = …….**

  _____

  _____

  _____

  _____

Lesson 5

> **Remark:**
>
> Perimeter of rectangle = (length + width) × 2
>
> Area of rectangle = length × width
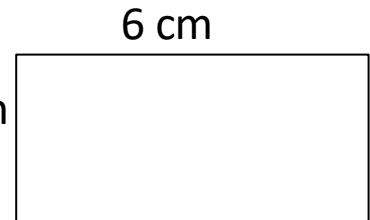>
> Perimeter of square = side length × 4
>
> Area of square = side length × side length

Answer the following :-

- Ahmed draw a rectangle with length 6 cm and width 4 cm. Find the perimeter and the Area ?
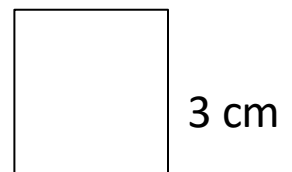
6 cm

The perimeter = _____   4 cm

The Area   = _____ cm^2

- A squared window its side length is 3cm, calculate the perimeter and the Area ?
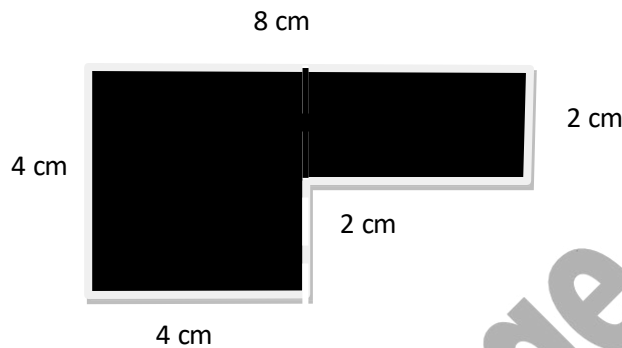
The perimeter =_____

The area =_____ cm^2 3 cm

Answer the following:
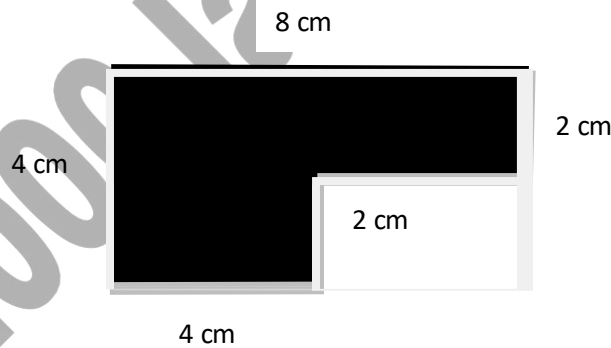
- **Find the area of the following figure**

8 cm

4 cm

2 cm

2 cm

4 cm

First way :

Area of square = ……. × …….. = …….. cm^2.

Area of rectangle = ……. × …….. = …… cm^2.

Total area = ………. + ………. = …….. cm^2.

8 cm

4 cm

2 cm

2 cm

4 cm

Second way :

Area of big rectangle = ……. × …….. = …….. cm^2

Area of small drawn rectangle = ……. × …….. = …….. cm^2

Total area = ………. – ………. = …….. cm^2

Lesson 6

- **Complete the following:**

3 cm | Area = 18 sq cm
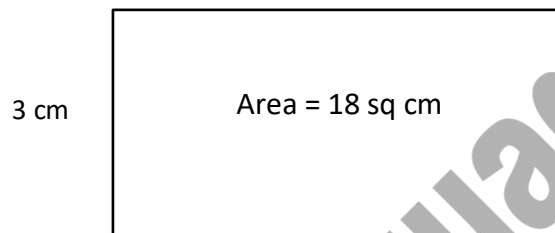
What is the length of the rectangle?

....

What the total perimeter of the rectangle?

....

3 cm | Area = 9 sq cm
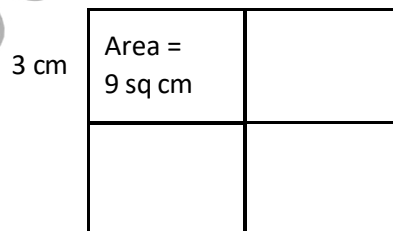
What is the total perimeter of the four squares?

....

What would be the total area of the four squares?

....

Wagdy drew the following rectangle.

Area =
30 sq cm

6 cm
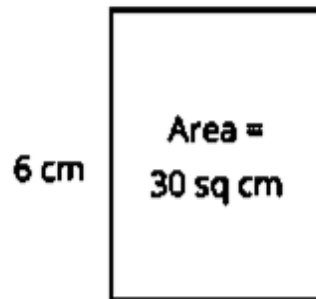
What is the total perimeter of Wagdy's rectangle?

Sketch another rectangle that has the same area.

What is the total perimeter of your new rectangle?

Lesson 7

1) Answer the following:

a) $7 \times 0 =$...........

b) $36 \div 9 =$............

c) $9 \times 2 =$...........

d) $63 \div 7 =$.............

e) $5 \times 4 =$ ....

f) $75 \div 5 =$.............

g) $10 \times 6 =$...........

h) $16 \div 2 =$.............

i) $8 \times 2 =$.............

j) $90 \div 9 =$..............

k) $40 \times 10 =$.........

l) $88 \div 8 =$.............

2) Draw 2 different rectangles with area of 24 squares:
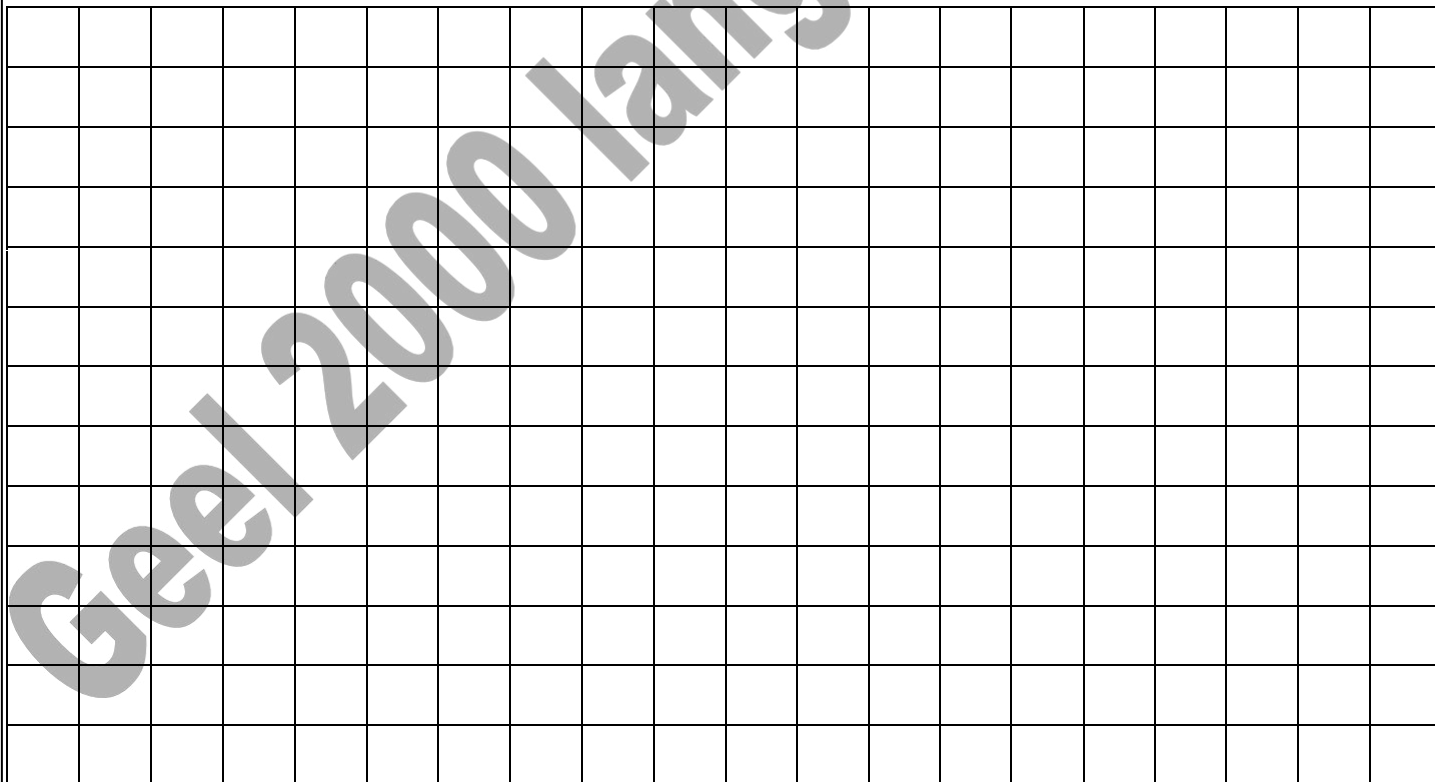
Exercise on chapter 11

1 Choose.

a. $7 \times \underline{\hspace{2cm}} = 7$ (49 or 0 or 1 or 7)

b. $24 \div \underline{\hspace{2cm}} = 3$ (12 or 6 or 4 or 8)

c. $\underline{\hspace{2cm}} \div 9 = 2$ (11 or 18 or 7 or 10)

d. $\underline{\hspace{2cm}} \times 4 = 28$ (5 or 6 or 7 or 8)

e. The perimeter of the opposite figure is _____ cm.   (16 or 20 or 22 or 26)

6 cm

5 cm
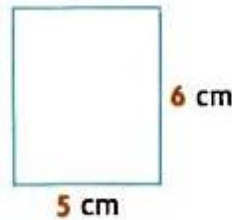
f. The total area of the opposite figure is _____ square cm.   (25 or 50 or 80 or 100)

5 cm

5 cm

---

2 Find the result.

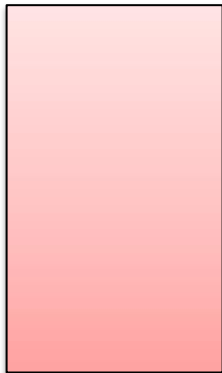|		
a. $2 \times 9 =$	b. $10 \times 4 =$	c. $12 \times 4 =$
d. $5 \times 5 =$	e. $7 \times 7 =$	f. $4 \times 1 =$
g. $3 \times 4 =$	h. $9 \times 11 =$	i. $8 \times 7 =$
j. $12 \times 1 =$	k. $6 \times 0 =$	l. $5 \times 11 =$
m. $6 \times 8 =$	n. $9 \times 9 =$	o. $3 \times 6 =$

Lesson 1

- **<u>Find the half of area of each of the following rectangles. Choose the way you preferred.</u>**
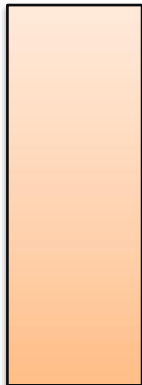
....

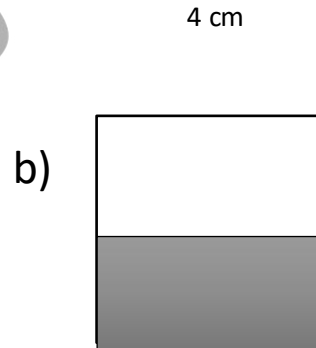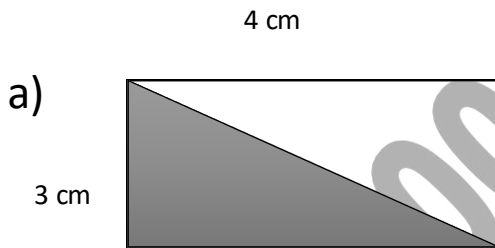...

....

....

2 cm

6 cm

....

....

....

....

10 cm

8 cm

....

....

....

....

3 cm

8 cm

Read and solve:

Ahmed wants to paint the wall of his room with 2 colors red and white.

The wall is 4 m long and 3 m wide. Find the area of the red part only?
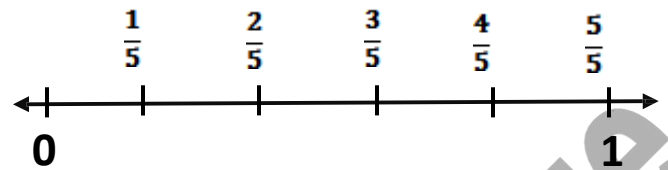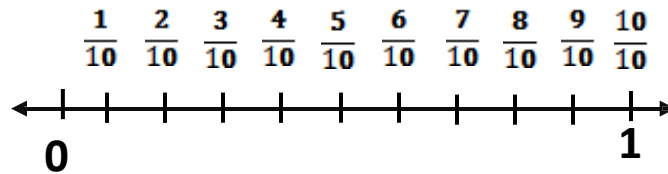
Work space:-

_____

_____

_____

_____

_____

Find the area of shaded parts:

4 cm

a)

3 cm

4 cm

b)

work space :-

_____

_____

_____

_____

Lesson 2

Look and notice:

$$\frac{1}{10} \quad \frac{2}{10} \quad \frac{3}{10} \quad \frac{4}{10} \quad \frac{5}{10} \quad \frac{6}{10} \quad \frac{7}{10} \quad \frac{8}{10} \quad \frac{9}{10} \quad \frac{10}{10}$$

0   1

$$\frac{1}{5} \qquad \frac{2}{5} \qquad \frac{3}{5} \qquad \frac{4}{5} \qquad \frac{5}{5}$$

0   1

Place the following fractions on the number line in the correct order:

a) $\frac{2}{3}$, $\frac{1}{6}$, $\frac{1}{2}$, $\frac{6}{6}$

0   1

b) $\frac{3}{12}$, $\frac{2}{8}$, $\frac{1}{4}$, $\frac{10}{12}$

0   1

c) $\frac{3}{6}$, $\frac{7}{8}$, $\frac{1}{4}$, $\frac{2}{8}$

0   1
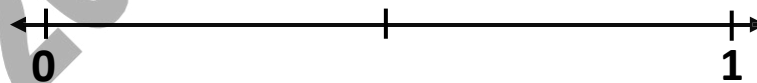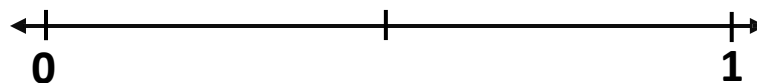
Put the following fractions on the number line.

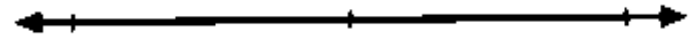a. $\frac{1}{3}$, $\frac{1}{6}$, $\frac{2}{6}$, $\frac{3}{6}$
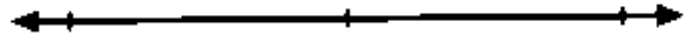
b. $\frac{1}{5}$, $\frac{3}{10}$, $\frac{5}{10}$, $\frac{4}{4}$
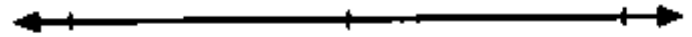
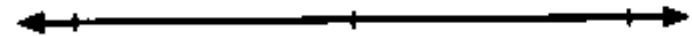c. $\frac{1}{3}$, $\frac{3}{6}$, $\frac{2}{3}$, $\frac{0}{5}$
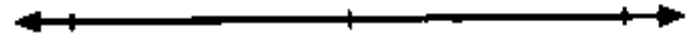
d. $\frac{2}{8}$, $\frac{7}{8}$, $\frac{1}{4}$, $\frac{3}{6}$

e. $\frac{6}{6}$, $\frac{3}{5}$, $\frac{1}{10}$, $\frac{1}{2}$

f. $\frac{1}{6}$, $\frac{2}{6}$, $\frac{4}{4}$, $\frac{4}{6}$

Lesson 3

1 Complete the table.

	Standard form	Word form
a.	_____	Nine hundred eighty-two thousand, three hundred twelve
b.	_____	Forty-six thousand, two hundred fifty-six
c.	_____	Three hundred one thousand, three hundred one
d.	431,295	_____
e.	70,683	_____

2 Write in expanded form.

a. $452,173 =$ _____ + _____ + _____ + _____ + _____

b. $603,426 =$ _____ + _____ + _____ + _____

c. $76,289 =$ _____ + _____ + _____ + _____ + _____

d. $1,765 =$ _____ + _____ + _____ + _____

e. $20,196 =$ _____ + _____ + _____ + _____

f. $7,053 =$ _____ + _____ + _____

3 Write the value and place value of the colored digit.

	place value	value			place value	value
a. 42,517				b. 104,728		
c. 580,609				d. 600,006		
e. 31,984				f. 5,128		
g. 63,810				h. 710,014		
i. 85,002				j. 2,739		

Form the greatest and the smallest number:

| 4 | 1 | 8 | 3 | 4 | 6 |

The greatest number: _____

The Smallest number: _____

| 9 | 5 | 4 | 8 | 3 | 6 |

The greatest number: _____

The Smallest number: _____

| 4 | 0 | 7 | 5 | 9 | 1 |

The greatest number: _____

The Smallest number: _____
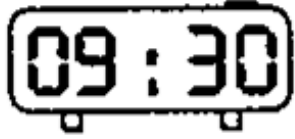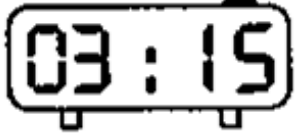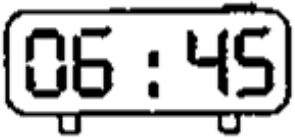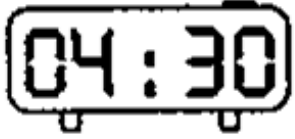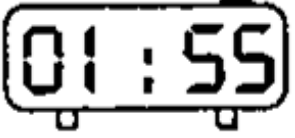
| 1 | 6 | 3 | 0 | 2 | 7 |

The greatest number: _____

The Smallest number: _____

Lesson 4

Write the elapsed time:

	Start time	End time	Elapsed time
A	07:25	09:30	....
B	03:15	06:45	....
C	11:05	04:30	....
D	01:55	08:25	....
E			....

Lesson 5

Write the length of each of the following:

The length = _____ cm

The length = _____ cm

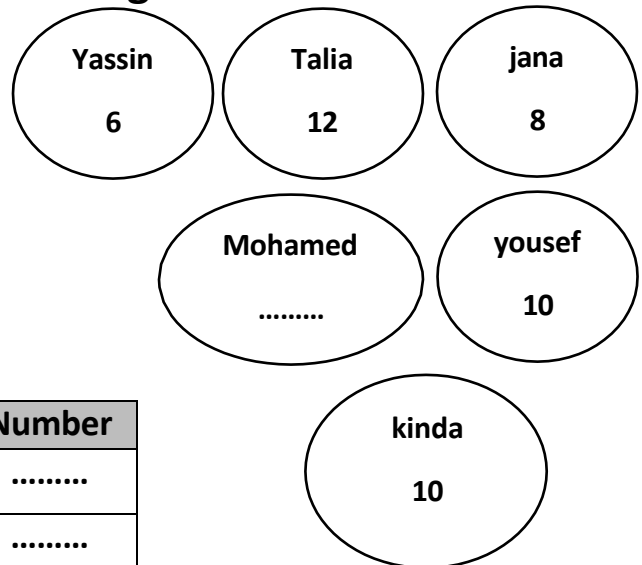The length = _____ cm

The length = _____ cm

The length = _____ cm
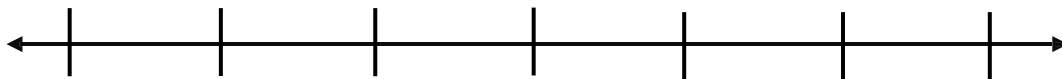
Answer the following:

The following data show the number of oranges each child collected during their trip.

a) Record the data in the tally table.

b) Create a line plot.

c) Create a bar graph.

Yassin 6

Talia 12

jana 8

Mohamed ………

yousef 10

kinda 10

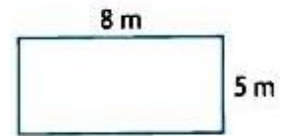| Name	Tallies	Number
Yassin	………………………………….	………
Talia	………………………………….	………
jana	………………………………….	………
kinda	………………………………….	………
Mohamed	𝍪𝍪 //	………
yousef	………………………………….	………

Title:…………………………………………

The key = X = 1 child

Exercise on chapter 12

1 Choose.

a. 372,500 ◯ three hundred seventy-two thousand, five

(> or < or =)

b. Half of the area of the opposite figure
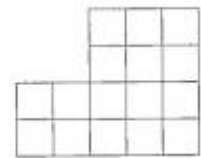
= _____ square meters.

8 m

5 m

(40 or 20 or 10)

c. The greatest number formed from 3 , 7 , 0 , 9 is _____

(7,930 or 3,079 or 9,730)

d. The perimeter of the opposite figure

= _____

(17 or 18 or 16)

2 Find the elapsed time.

Start time

End time

3 Put the fractions on the number line.

$\frac{6}{6}$, $\frac{4}{8}$, $\frac{2}{8}$, $\frac{1}{2}$

4 Represent the data by a line plot.

Title _____

Key Each X = _____

Ages of children in a ballet class		
Age	Tally	Number
3					
4	卌		
5						
6	卌 ||||	
7	卌 ||	
8	卌 |||	