

# Math



d-

(2,3,5,...)	
18	2
9	3
3	3
Stop 1	$18 = 2 \times 3 \times 3 \times -$

(2,3,5,...)	
30	3
10	2
5	5
Stop 1	

$$30 = 2 \times 3 \times - \times 5$$

$$\text{H.C.F} = 2 \times 3 = 6$$

$$\text{C) } \frac{1}{4} \text{ of day} = 24 \times \frac{1}{4} = 6 \text{ hours} = 6 \times 60 = 360 \text{ minutes}$$

4- a) 0

b)  $256412307 - \dots\dots\dots = 255\,000\,000$

$$256412307 - 255\,000\,000 = 1412307$$



*Good Luck*

## Model (5)

**Choose:-**

a- 8 million

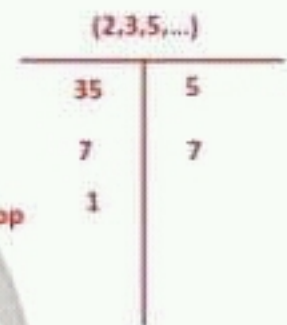
b- 4 675933

c- 641 thousand

d- 35

e- an Obtuse angled  $[ 180 - (30 + 40) ] = 110^\circ$

f-



$$15 = 3 \times 5 \times -$$

$$35 = - \times 5 \times 7$$

$$L.C.M = 3 \times 5 \times 7 = 105$$

2-

3- a) 0, 6, 12

b) 2, 5, 5, 7

$$C) P = (L + w) \times 2$$

$$= (7 + 11) \times 2 = 18 \times 2 = 36 \text{ cm}$$



## Model (5)

- 1** Choose the correct answer.
- a**  $7\ 251\ 309 + 748\ 691 = \dots\dots$   
(3 milliard , 8 million , 8 thousand)
- b**  $5\ 000\ 000 - 324\ 067 = \dots\dots$   
(95 324 076 , 91 675 933 , 4 675 933)
- c**  $8 \times 641 \times 125 = \dots\dots$   
(641 thousand , 641 hundred , 641 million)
- d** The number 2 100 is divisible by ..... (35 , 11 , 13 , 17)
- e** XYZ is a triangle in which  $m(\angle X) = 40^\circ$  and  $m(\angle Y) = 30^\circ$ , then  $\Delta XYZ$  is ..... triangle.  
(a right-angled , an obtuse-angled , an acute-angled)
- f** The L.C.M. of 15 and 35 is ..... (15 , 105 , 35 , 5)
- 2** Draw the square XYZL whose side length 3 cm. Join its diagonals  $\overline{XZ}$  and  $\overline{YL}$ .
- 3**
- a** Multiples of 6 are ....., ..... and .....
- b** Prime factors of 350 are ....., ..... and .....
- c** The perimeter of a rectangle whose dimensions are 7 cm and 11 cm = ..... = ..... cm
- d** The H.C.F. of 18 and 30 is .....
- e**  $\frac{1}{4}$  of a day = ..... hours = ..... minutes.
- 4**
- a** Calculate  $2\ 106\ 425 + 894\ 075 - 3\ 000\ 500$ .
- b** Find the number that if subtracted from 256 412 307, then the remainder will be 255 million.

# Math



5- Draw the rectangle A B C D , B c = 4 cm , A B , 3 cm '

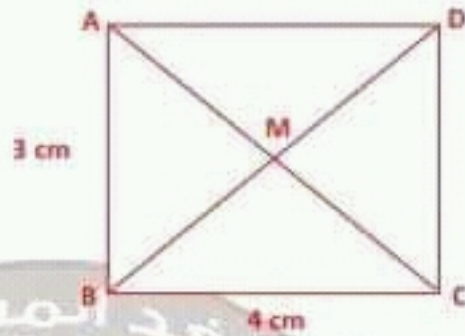
1-

2-  $W = 24 \text{ m}$

$L = 24 \times 2 = 48 \text{ m}$

$P = (L + W) \times 2$

$= (48 + 24) \times 2 = 144 \text{ m}$



# Math



## 2- Choose :-

- 1- 625933
- 2- 7
- 3-  $\angle Z = 180^\circ - (40^\circ + 30^\circ) = 110^\circ$   
Obtuse angled triangle
- 4- 2
- 5- 2
- 6- 641 thousand

## 3- Put (✓) or (✗) and correct:-

- 1- (✗) 1204
- 2- (✓)
- 3- (✗) areas
- 4- (✓)
- 5- (✓)
- 6- (✓)

- 1×4= 4
- 2×4= 8
- 3×4= 12
- 4×4= 16
- 5×4= 20
- 6×4= 24
- 7×4= 28
- 8×4= 32
- 9×4= 36

$$\begin{array}{r}
 1204 \\
 \times 4 \\
 \hline
 4816 \\
 \hline
 08 \\
 \hline
 08 \\
 \hline
 0016 \\
 \hline
 0016 \\
 \hline
 0000
 \end{array}$$

- 4-  
1-  $19836 \div 6 = 3306$   $r = 0$

(Without using calculator)

- 2-  $220 = 5 \times 2 \times 2 \times 11$   
 $330 = 5 \times 2 \times 3 \times 11$   
 L.C.m =  $5 \times 2 \times 2 \times 11 \times 3 = 660$

$$\begin{array}{r}
 19836 \\
 \div 6 \\
 \hline
 18 \\
 \hline
 18 \\
 \hline
 18 \\
 \hline
 0036 \\
 \hline
 36 \\
 \hline
 00
 \end{array}$$

# Math



4- 70

	14	
	(2,3,5,7,11,13,...)	
	14	7
	2	2
Stop	1	

	10	
	(2,3,5,7,11,13,...)	
	10	5
	2	2
Stop	1	

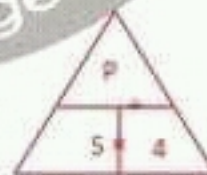
$$14 = \boxed{7} \times \boxed{2} \times \boxed{\quad}$$
$$10 = \boxed{\quad} \times \boxed{2} \times \boxed{5}$$

$$L.C.M = 7 \times 2 \times 5 = 70$$

5- 765276

$$6- S = \frac{p}{4} = \frac{36}{4} = 9 \text{ cm}$$

$$P = 36$$



## Model (4)

### 1 Complete the following :

1. 94 million , 35 thousand , 15 = .....
2. The value of the digit 3 in the number 3721014 = .....
3. The H.C.F of the two numbers 16 and 24 = .....
4. The L.C.M of the two numbers 14 , 10 = .....
5.  $465276 +$  three hundred thousand = .....
6. The length of the side of the square whose perimeter 36 cm = .....

### 2 Choose the correct answer :

1.  $950000 - 324067 =$  ..... ( 324076 or 625933 or 675933 )
2. The number 2100 is divisible by ..... ( 7 or 11 or 13 )
3.  $\Delta XYZ$  in which  $m(\angle X) = 40^\circ$  ,  $m(\angle Y) = 30^\circ$  , then  $\Delta XYZ$  is .....  
( acute angled triangle or right angled triangle or obtuse angled triangle )
4. The number 108 is divisible by the two prime numbers 3 , ..... ( 5 or 7 or 2 )
5. The number ..... is prime number . ( 6 or 8 or 2 )
6.  $8 \times 641 \times 125 =$  ..... ( 641 thousand or 641 hundred or 641 million )

### 3 Put (✓) in front of the correct statement or (X) in front of the incorrect one :

1.  $4816 \div 4 = 124$  ( )
2. In the  $\Delta ABC$  , if  $m(\angle B) = 105^\circ$  , then it is possible to be an obtuse angled triangle. ( )
3. The square metre ( $m^2$ ) is used for measuring the perimeters of the shapes. ( )
4. The two parallel straight lines never intersect each other ( )
5. The area of the square = side  $\times$  side ( )
6. In a rhombus , all the sides are equal in length ( )

- 4 1. Find the quotient of  $19836 \div 6$  (without using the calculator)
2. Find L.C.M of the two numbers  $(5 \times 4 \times 11)$  ,  $(5 \times 6 \times 11)$

- 5 1. Draw the rectangle ABCD in which  $BC = 4$  cm. ,  $AB = 3$  cm.  
draw  $\overline{AC}$  intersects  $\overline{BD}$  at M
2. A rectangular piece of land , its width equals half its length , Calculate its perimeter if its width = 24 metre.

## Model (4)

### 1- Complete :-

1- 94,035,015

2- 3,000,000

3- 8

	16	
	(2,3,5,7,11,13,...)	
	16	2
	8	2
	4	2
	2	2
Stop	1	

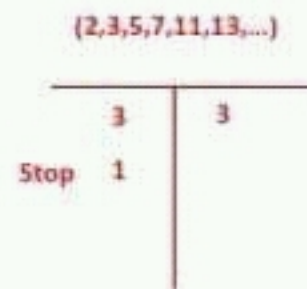
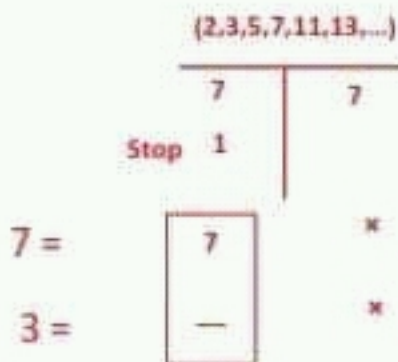
	24	
	(2,3,5,7,11,13,...)	
	24	3
	8	2
	4	2
	2	2
Stop	1	

$$16 = 2 \times 2 \times 2 \times 2 \times 2$$
$$24 = 2 \times 2 \times 2 \times 3$$

H.C.F =  $2 \times 2 \times 2 = 8$



2) 21



L. C. M =  $7 \times 3 = 21$

3- Pentagon

4-  $90^\circ$

5-  $100 > 50$

6-  $5348475 > 300000$

5)

1)  $m(\angle z) = 180^\circ - (45^\circ + 45^\circ) = 90^\circ$

2) Right angled triangle .

b)

A. Of square =  $5 \times 5$   
 $= 5 \times 5 = 25 \text{ cm}^2$

A. of Rectangle =  $L \times w$

$= 3 \times 2 = 6 \text{ cm}^2$

A. of shaded part =  $25 - 6 = 19 \text{ cm}^2$



# Math



### 3- Complete:-

- 1- Prime number
- 2- Equal
- 3- 50 cm

b)  $5372 \div 11 = 488 \quad r = 4$

$$\begin{array}{r}
 488 \\
 \times 11 \\
 \hline
 488 \\
 + 4880 \\
 \hline
 5368 \\
 + 4 \\
 \hline
 5372
 \end{array}$$

### 4) Complete :-

1) 6

(2,3,5,7,11,13,...)		(2,3,5,7,11,13,...)	
18	3	30	3
6	3	10	5
2	2	2	2
Stop 1		Stop 1	

$$18 = \boxed{3} \times \boxed{3} \times \boxed{2} \times \boxed{\quad}$$

$$30 = \boxed{3} \times \boxed{\quad} \times \boxed{2} \times \boxed{5}$$

H.C.F =  $3 \times 2 = 6$

## Model (3)

### 1 Find the result of each of the following :

- (a)  $70070 \div 35 = \dots\dots\dots$  (b)  $35859 + 7936 = \dots\dots\dots$   
 (c)  $123 \times 15 = \dots\dots\dots$  (d)  $90000 - 78456 = \dots\dots\dots$

### 2 Choose the correct answer :

- Hundred thousand and three hundred seventy five is  $\dots\dots\dots$   
 ( 10315 or 100375 or 1375 )
- The greatest number formed from the digits 4 , 1 , 5 , 3 , 2 and 9 is  $\dots\dots\dots$   
 ( 45321 or 123459 or 954321 )
- The smallest prime number is  $\dots\dots\dots$   
 ( 1 or 0 or 2 )
- The value of the digit 4 in the number 546789 is  $\dots\dots\dots$   
 ( 40000 or 4000 or 400000 )
- The perimeter of square whose side length 3 cm. =  $\dots\dots\dots$  ( 9 cm. or 6 cm. or 12 cm. )
- 105 is divisible by  $\dots\dots\dots$  ( 2 , 3 or 5 , 2 or 5 , 3 )

### 3 (a) Complete the following :

- The number which has only two factors is called  $\dots\dots\dots$
- The diagonals of the rectangle  $\dots\dots\dots$  in length.
- 5 dm. =  $\dots\dots\dots$  cm.

(b) A number if it is divided by 11 the quotient is 488 and remainder 4 , what is this number ?

### 4 Complete the following :

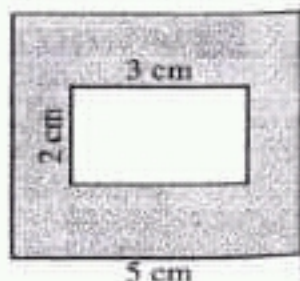
- H.C.F for the two numbers 18 + 30 is  $\dots\dots\dots$
- L.C.M. for the two numbers 7 + 3 is  $\dots\dots\dots$
- The polygon of 5 sides is called  $\dots\dots\dots$
- The measure of the right angle =  $\dots\dots\dots^\circ$
- $4 \times 25 \dots\dots\dots 100 \div 2$  (by using > , < or =)
- 5348475 - 3 hundred thousand

### 5 (a) Draw $\Delta XYZ$ in which $XY = 5$ cm. , $m(\angle X) = m(\angle Y) = 45^\circ$ , find

- Measure  $\angle Z$
- What is the type of  $\Delta XYZ$  according to the measures of its angles.

### (b) In the opposite figure :

Find the area of the shaded part ,  
 the outer shape is a square of side length 4 cm  
 and the inner shape is a rectangle  
 of dimensions 3 cm. + 2 cm.



# Math



## Model (3)

1) Find the result each of the following :-

a) 02002

b) 43795

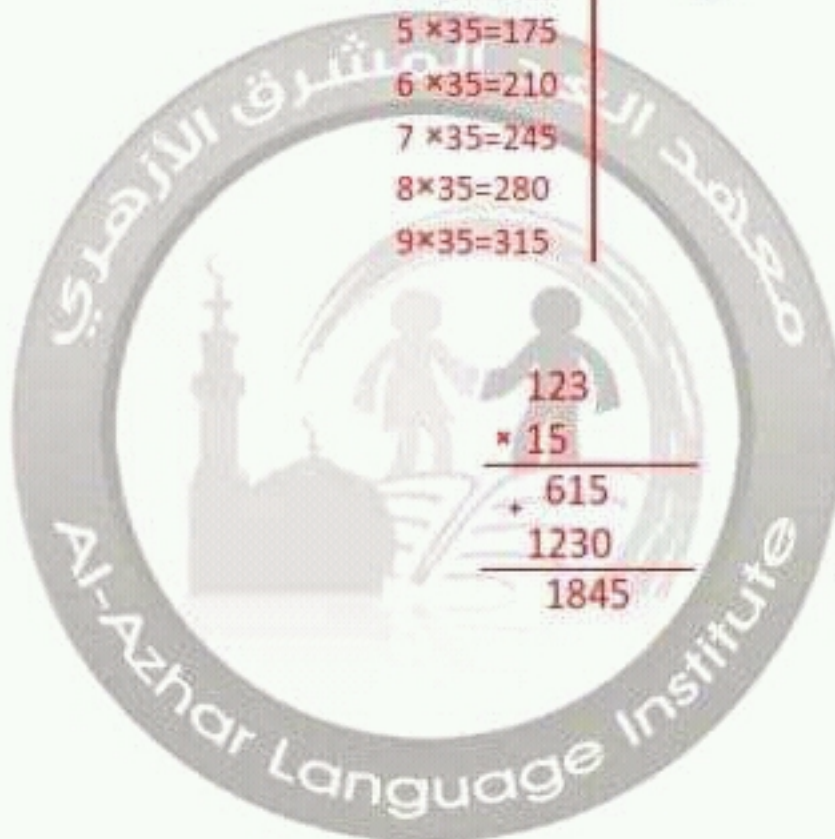
c) 1845

d) 11544

02002

$$\begin{array}{r} 35 \\ 1 \times 35 = 35 \\ 2 \times 35 = 70 \\ 3 \times 35 = 105 \\ 4 \times 35 = 140 \\ 5 \times 35 = 175 \\ 6 \times 35 = 210 \\ 7 \times 35 = 245 \\ 8 \times 35 = 280 \\ 9 \times 35 = 315 \end{array}$$

$$\begin{array}{r} 70070 \\ -70 \\ \hline 00070 \\ -70 \\ \hline 00 \end{array}$$



$$\begin{array}{r} 123 \\ \times 15 \\ \hline 615 \\ + 1230 \\ \hline 1845 \end{array}$$

2) Choose:-

1. 100375

2. 954321

3. 2

4. 40000

5. 12 cm,  $P = (5 \times 4) = (3 \times 4) = 12$  cm

6. 5,3

# Math



## 4- Find the result of :

- 1)
- a) 8238023
- b) 461879
- c) 19975

$$\begin{array}{r} 235 \\ \times 85 \\ \hline + 1175 \\ 18800 \\ \hline 19975 \end{array}$$

- 4-
- 2)  $192 \div 16 = 12$  Floors

$$\begin{array}{r} 16 \overline{) 192} \\ 1 \times 16 = 16 \\ 2 \times 16 = 32 \\ 3 \times 16 = 48 \\ 4 \times 16 = 64 \\ 5 \times 16 = 80 \\ 6 \times 16 = 96 \\ 7 \times 16 = 112 \\ 8 \times 16 = 128 \\ 9 \times 16 = 144 \end{array}$$
  
$$\begin{array}{r} 012 \\ \underline{16} \overline{) 192} \\ \underline{16} \phantom{0} \\ 032 \\ \underline{32} \\ 00 \end{array}$$

# Math



5- Find  
1)

28	
(2,3,5,7,11,13,...)	
28	7
4	2
2	2
Stop	1

42	
(2,3,5,7,11,13,...)	
42	7
6	3
2	2
(Stop)	1

$$28 = 7 \times 2 \times 2$$
$$42 = 7 \times 2 \times 3$$

$$\text{H.C.F} = 7 \times 2 = 14$$

$$\text{L.C.M} = 7 \times 2 \times 2 \times 3 = 84$$

2) a) Area of rectangle =  $L \times w$   
 $= 9 \times 12 = 108 \text{ cm}^2$

b) The Perimeter =  $(L + w) \times 2$   
 $= (9 + 12) \times 2 = 42 \text{ cm}$

## Model (2)

### 1 – Complete the following:-

- 1- Are right angles
- 2-  $56 \text{ m}^2$
- 3- Zero
- 4- (side length  $\times 4$ )
- 5- 3,132,081
- 6- 30,000

### 2- Choose :-

- 1- 18
- 2- >
- 3- Even
- 4- 4

$8$	$12$
(2,3,5,7,11,13,...)	(2,3,5,7,11,13,...)
8	12
4	6
2	3
Stop 1	1
2	2
2	2
2	3

$$8 = \boxed{2} \times \boxed{2} \times \boxed{2} \times \boxed{\text{—}}$$

$$12 = \boxed{2} \times \boxed{2} \times \boxed{\text{—}} \times \boxed{3}$$

$$\text{H.C.F} = 2 \times 2 = 4$$

# Math



5- 700

6- Equilateral triangle

### 3) Complete the following :-

1. 2

2. Bisect

3. 1565178

4.  $180^\circ - (62^\circ + 81^\circ) = 37^\circ$  acute angled triangle

5. 403



00403

60	24180
$1 \times 60 = 60$	$- 240$
$2 \times 60 = 120$	00180
$3 \times 60 = 180$	$- 180$
$4 \times 60 = 240$	000
$5 \times 60 = 300$	
$6 \times 60 = 360$	
$7 \times 60 = 420$	
$8 \times 60 = 480$	
$9 \times 60 = 540$	



## Model (2)

### 1 Complete the following :

1. The rectangle is a parallelogram in which its angles .....
2.  $5600 \text{ dm}^2 = \dots\dots\dots \text{ m}^2$ .
3. .... is the common multiple for all numbers.
4. The perimeter of the square = .....  $\times$  .....
5. The number 3 million , 132 thousand , 81 in digits is .....
6. The value of the digit 3 in the number 21538006 is .....

### 2 Choose the correct answer :

1. .... is divisible by 2 , 3 ( 10 or 18 or 21 )
2. 32605108 ..... 23511998 (> or < or =)
3. All the ..... numbers are divisible by 2 ( odd or even or prime )
4. The H.C.F of 8 , 12 is ..... ( 2 or 4 or 8 )
5.  $25 \times 7 \times 4 = \dots\dots\dots$  ( 36 or 700 or 179 )
6. The triangle whose side lengths 6 cm. is ..... ( scalene triangle or equilateral triangle or isoscles triangle )

### 3 Complete the following :

1. The number of the factors of the prime number is .....
2. The diagonals of the parallelogram ..... each other.
3.  $2565178 - \text{one million} = \dots\dots\dots$
4. If the measures of two angles of a triangle are  $62^\circ$  ,  $81^\circ$  , then this triangle is ..... angled triangle.
5.  $24180 \div 60 = \dots\dots\dots$

### 4 (1) Find the result of :

- (a)  $5034567 + 3203456 = \dots\dots\dots$
- (b)  $893756 - 431877 = \dots\dots\dots$
- (c)  $235 \times 85 = \dots\dots\dots$

(2) A hotel contains 192 rooms divided equally by a number of floors , each floor contains 16 room How many floors are there in this hotel ?

### 5

1. Find H.C.F , L.C.M of the numbers 28 and 42
2. Rectangle its dimensions are 9 cm. , 12 cm. Find :
  - (a) Its area
  - (b) Its perimeter.

# Math



5) The greatest = 975,420

The Smallest = 204,579

The difference =  $975,420 - 204,579 = 770,841$

b- The price of one meter =  $648 \div 24 = 27$  L.E

027

24	648
$1 \times 24 = 24$	$\underline{48}$
$2 \times 24 = 48$	168
$3 \times 24 = 72$	$\underline{168}$
$4 \times 24 = 96$	000
$5 \times 24 = 120$	
$6 \times 24 = 144$	
$7 \times 24 = 168$	

# Math



3) Find :-

a) 9,191,828

b) 200,012

$$\begin{array}{r} 25,724 \\ \times 59 \\ \hline 231516 \\ + 153532 \\ \hline 1517656 \end{array}$$

d) 428

$$\begin{array}{r} 36 \\ 1 \times 36 \\ 2 \times 72 \\ 3 \times 108 \\ 4 \times 144 \\ 5 \times 180 \\ 6 \times 216 \\ 7 \times 252 \\ 8 \times 288 \end{array}$$



4)

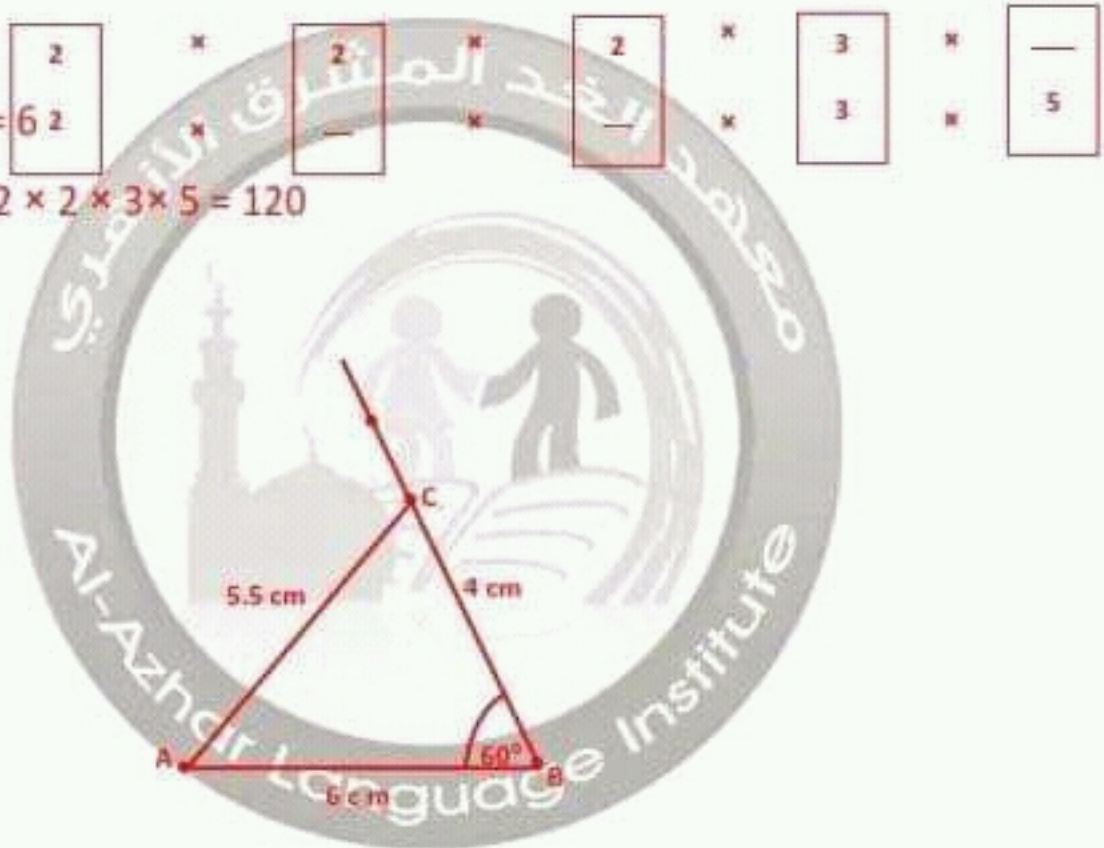
24	
(2,3,5,7,11,13,...)	
24	2
12	2
6	2
3	3
24= Stop 1	1

30	
(2,3,5,7,11,13,...)	
30	3
10	5
2	2
Stop 1	1

30=

H.C.F =  $2 \times 3 = 6$

L.C.M =  $2 \times 2 \times 2 \times 3 \times 5 = 120$



B)



1-  $\overline{AC} = 5.5 \text{ cm}$

2- Scalene Triangle.

# Math



3) Find the result of each of the following:

a.  $8752013 + 439815 = \dots\dots\dots$

b.  $7256312 - 7056300 = \dots\dots\dots$

c.  $436 \times 59 = \dots\dots\dots$

d.  $15408 \div 36 = \dots\dots\dots$

4) (a) factorize the two numbers 24 , 30 to their prime factors , then find.

1. H.C.F

2. L.C.M

(b) Draw  $\Delta ABC$  in which  $AB = 6$  cm,  $m(\angle B) = 60^\circ$  ,  $BC = 4$  . , then

1. By using the ruler find the length of  $\overline{AC}$  .

2. State the type of  $\Delta ABC$  according to its side lengths.

5) (a) Find the greatest and the smallest number formed from 6 digits using the following digits : 7 , 0 , 2 , 5 , 9 , 4 then Calculate the difference between them.

(b) Eman bought 24 meters of cloth for L.E 648 find the price of one meter.

## Model (1)

### 1- Complete :-

Mr M th

1- 003 ,045,473,000

2- 5

3- 2 factors

4-  $300 \text{ dm}^2$

5-  $\frac{24}{3} = 8$  hours

6-  $10 \text{ dm} = 100 \text{ cm}$

$$P = (L + w) \times 2 =$$

$$(180 + 100) \times 2 =$$

$$280 \times 2 = 560 \text{ cm}$$

### 2- Choose :-

1- 5, 3

2- Square and rectangle

3- 0

4- 10

5-  $36 = 6 \times 6$

So,  $S = 6 \text{ cm}$

$$P = s \times 4 = 6 \times 4 = 24 = 24 \text{ cm}$$

6- Million.

