

# Math 5<sup>th</sup> prim

## Test 1

### Question 1:

- Choose the correct answer:

- a-  $(3 + 1) \dots\dots\dots N$  (  $\in$  -  $\notin$  -  $\varnothing$  -  $\subset$  )
- b- If X is an even number, then  $x + 2$  is  $\dots\dots\dots$  number.  
(even – odd – prime – otherwise)
- c- If  $x + 2 = 9$ ,  $x \in N$ , then  $x = \dots\dots\dots$  ( 15 – 13 – 11 – 7 )
- d- Area of a triangle its Base = 10 cm , Height = 6 cm is  $\dots\dots\dots$   $\text{Cm}^2$   
( 60 – 30 – 15 – 84 )

### Question 2:

#### A) Complete to get a true sentence:

- (1) The circumference of a circle with diameter 10 cm is  $\dots\pi$  cm.
- (2)  $32 \times (64 + 36) = 32 \times \dots\dots\dots = \dots\dots\dots$

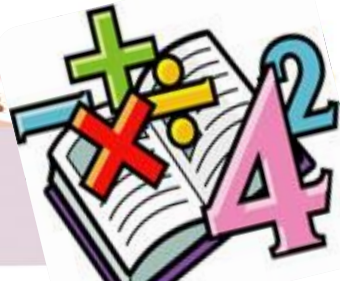
#### B) Which is greater in area?

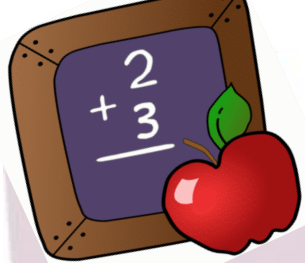
- A Triangle it's base is 8 cm and its height is 6 cm  
or A Square the length of its diagonal is 10 cm

### Question 3:

#### A) Translate the following verbal statement into mathematical sentence:

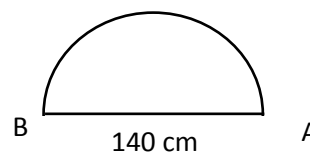
Twice a number x subtracted 3 from it





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B) Find the perimeter of the following figure:



### Question 4:

A) In the Cartesian co-ordinates plan determine the points A (2 , 2) , B (5 , 2) , C (5 , 8) , D (2 , 8).

B) The following table shows the marks of 40 pupils in the Math Exam:

Sets	10 -	20 -	30 -	40 -	50 -	Total
Frequency	5	7	12	A	7	40

- (1) Find the value of A
- (2) Represent the data by frequency polygon

### Question 5:

1- A farm its area is 24 Fadden was planted with fruits, vegetables, flowers and palms represented by the opposite figure:

• **Complete:**

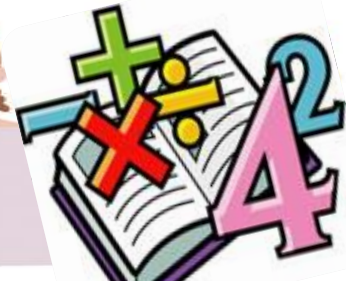
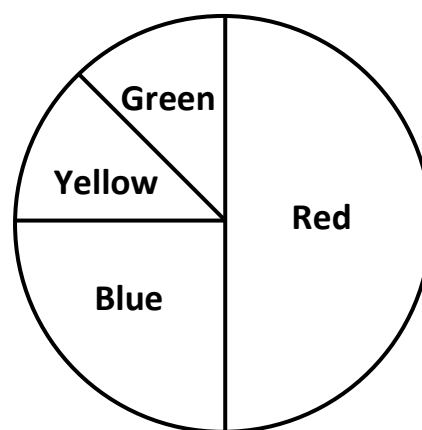
a) If the fruits is 12 Fadden,

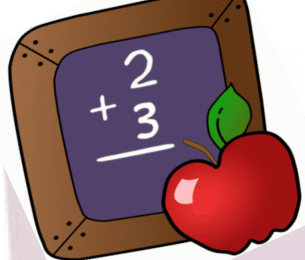
Then its represented by ..... colour

b) The blue sector is planted with vegetables,

then its area = .....

c) The area of flowers = the area of palm = ..... Fadden





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## Test 2

### Question 1:

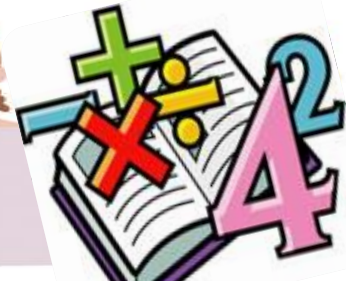
- Circle the true answer:

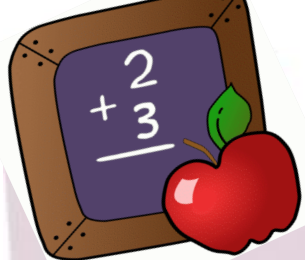
- a- If the longest chord in a circle is 14 cm. then the circumference is ..... cm  
( 88 , 44 , 22 , 11 )
- b- The sum of two natural numbers ..... N (  $\in$  -  $\notin$  -  $\varnothing$  -  $\subset$  )
- c- If  $x + 3 = 5$  , then  $x =$  ..... ( 1 , 2 , 3 , 4 )
- d- The area of a triangle whose base length is 10 cm and  
height is 5 cm is .....  $\text{cm}^2$  ( 40 , 25 , 60 , 70 )

### Question 2:

- Complete:

- a- If  $x$  between 5 and 9 , then  $x =$  .....
- b- The additive identity is ..... but the multiplicative identity is .....
- c- The set of natural numbers (N) – the set of even numbers (E) = .....
- d- If  $x$  is odd number then  $x + 4 =$  .....





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## Question 3:

- Use the properties of "commutative", "Associative", "Distribution" to find:

a-  $372 \times 101$

b-  $8 \times 582 \times 125$

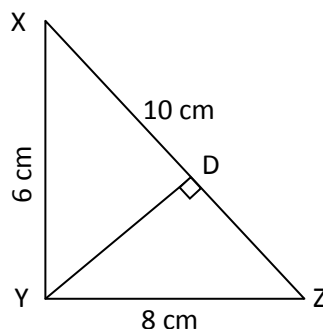
c-  $208 + 73 + 792 + 27$

## Question 4:

A)  $\triangle XYZ$  is a right angle at Y ,  $XY = 6 \text{ cm}$  ,  $YZ = 8 \text{ cm}$  ,  $ZX = 10 \text{ cm}$  .

a) Area of  $\triangle xyz$

b) Find the length of  $\overline{YD}$



B) Write the relation between A and B if B greater than twice A by 10

## Question 5:

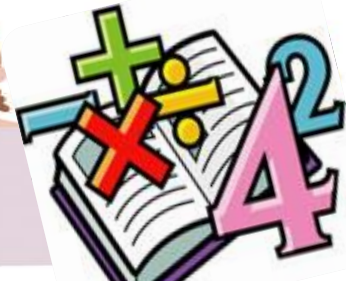
A) In 2-dimensional coordinate plane:

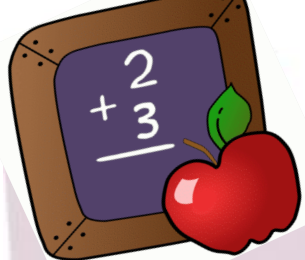
Draw the triangle ABC where A ( 2 , 1 ) , B ( 5 , 1 ) , C ( 5 , 5 )

B -

1- The following data represents the number of hours for working of 50 workers. Represent these data by frequency polygon

Sets	4-	6-	8-	10-	Total
Frequency	12	8	16	14	50





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## Test 3

### Question 1:

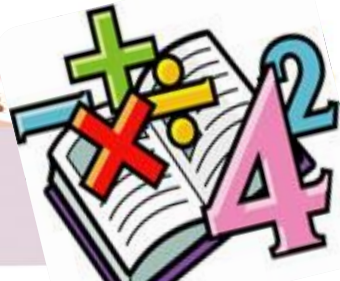
- Complete:

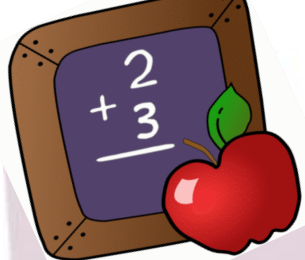
- a- The multiplicative neutral element in  $N$  is ..... but the additive neutral element in  $N$  is .....
- b- The sum of two numbers is 18 one of them is  $x$  then the other is .....
- c-  $N - E = \dots\dots\dots$  ,  $E \cup O = \dots\dots\dots$  ,  $E \cap O = \dots\dots\dots$
- d-  $54 + (35 + \dots\dots\dots) = (54 + \dots\dots\dots) + 28$
- e- Area of square = ..... , Area of triangle = .....

### Question 2:

- Choose the correct answer:

- a- Twice the number  $x$  subtracted 5 from it = .....  
(  $x - 5$  or  $2x + 5$  or  $2x - 5$  or  $5 - 2x$  )
- b-  $(48 \div 8) \dots\dots\dots N$  (  $\in$  -  $\notin$  -  $\varnothing$  -  $\subset$  )
- c- If  $x = \{x : x \in N, 3 < x \leq 6\}$  then  $x = \dots\dots\dots$   
(  $\{4, 5\}$  ,  $\{3, 4, 5, 6\}$  ,  $\{3, 4, 5\}$  ,  $\{4, 5, 6\}$  )
- d- The diameter of the circle whose circumference = 44 cm equals ... cm  
( 28 or 21 or 7 or 14 )





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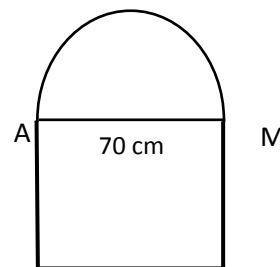
## Question 3:

A) Which is greater in area?

A triangle whose base = 8 and its corresponding height = 6 cm or the square whose one of its diagonals is 8 cm

B) Calculate the perimeter of the window in shape of square and over it a

semi-circle ( $\pi = \frac{22}{7}$ )



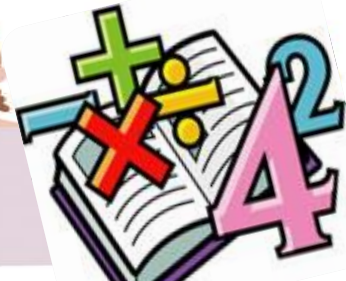
c)  $45 \times 99$  (using properties)

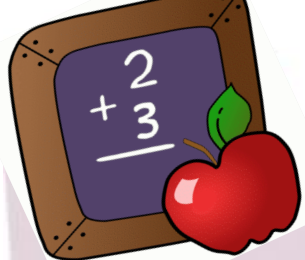
## Question 4:

The following table shows the wages of 50 workers in a factory:

Wages	10 -	20 -	30 -	40 -	50 -	60 -	70 -	Total
Number of workers	3	6	10	15	8	5	3	50

Represent the data by frequency polygon





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## Test 4

### Question 1:

- Choose the correct answer:

- a-  $8 + 18 \div 6 \times 5 - 20 = \dots\dots\dots$  ( 2 , 25 , 3 , 10 )
- b- If  $x = \{ x : x \in \mathbb{N} , 2 \leq x < 3 \}$  , then  $x \in \dots\dots$  (  $\emptyset$  , { 2 , 3 } , { 2 } , { 3 } )
- c- The radius of the circle whose perimeter is 88 cm equal  $\dots\dots$ cm  
( 7 , 14 , 28 , 56 )
- d- Twice a number  $x$  subtracted 3 from it ... (  $x - 3$  ,  $2x + 3$  ,  $2x - 3$  ,  $3 - 2x$  )
- e- If  $x$  is an odd number then  $x + 2 \dots\dots$  ( even , odd , prime )

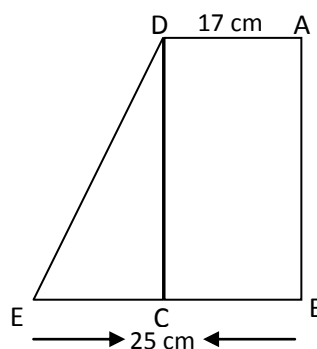
### Question 2:

- A) In the opposite figure:

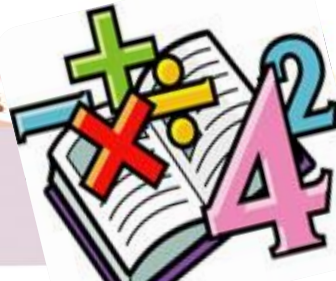
ABCD is rectangle its area  $544 \text{ cm}^2$

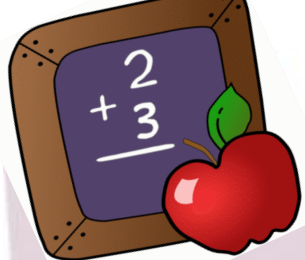
$E \in \overrightarrow{BC}$  ,  $AD = 17 \text{ cm}$  ,  $BE = 25 \text{ cm}$

Find the area of  $\Delta DCE$



- B) If  $x = \{ x : x \in \mathbb{N} , x \leq 7 \}$  use the listing method to write  $x$  then represent its elements on a number line.





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## Question 3:

A) The length of the diameter of the wheel of a bicycle is 28 cm.

Calculate the covered distance if the wheel turns one turn and what the number of turns to cover distance 132 meter (where  $\pi = \frac{22}{7}$  )

B) If the age of a man now is  $x$  years where  $x \in \mathbb{N}$  find:

- 1) The age of the man after 10 years
- 2) The age of the man since 7 years ago

C) Find the diagonal of a rhombus its area is  $36 \text{ cm}^2$  the length of other diagonal = 8 cm

## Question 4:

- Complete:

a- The multiplicative neutral in  $\mathbb{N}$  is .....

b- The set of even numbers (E) – the set of odd numbers (O) = .....

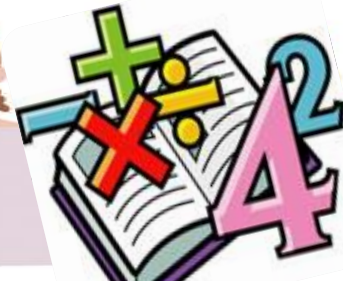
c- If a number  $x$  exceeds twice the number  $y$  by 7 = .....

d-  $316 \times 1001 = \dots\dots\dots$  (use distribution property )

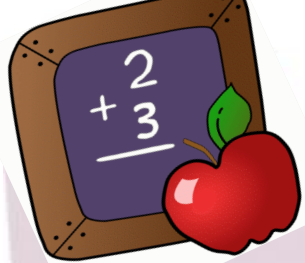
e-  $(5 - 7) \dots\dots\dots \mathbb{N}$  (  $\in$  -  $\notin$  -  $\subset$  -  $\supset$  )

f- A rectangle in which , the length is more than its width by 4 cm if the length of the rectangle is  $x$  cm then the width = ..... cm

g- The length of a rectangle exceeds the width by 5 , if the width of the rectangle =  $x$  cm , then its length = ..... cm







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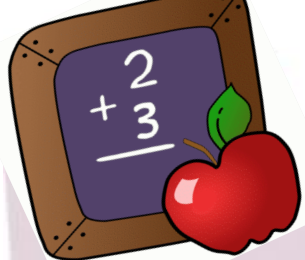
## Question 5:

A) Which is greater?

A square whose diagonal is 10 cm long or the right-angled triangle in which the length of the sides of the right angle are 8 cm and 15 cm.

B) In the two dimensional co-ordinates determine the points A (2 ,5) ,  
B (5 , 2) , C (5 , 8), then find the length of  $\overline{BC}$  by measuring .





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## Answer Test 1

1- a. €      b. even      c. 7      d. 30

2- A) 1)10  
2) 100 ,3200

$$B) A \text{ of Triangle} = \frac{1}{2} \times b \times h = \frac{1}{2} \times 8 \times 6 = 24 \text{ cm}^2$$

$$A \text{ of square} = \frac{1}{2} \times d \times d = \frac{1}{2} \times 10 \times 10 = 50 \text{ cm}^2$$

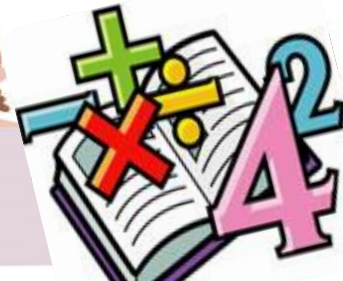
Area of square > Area of triangle

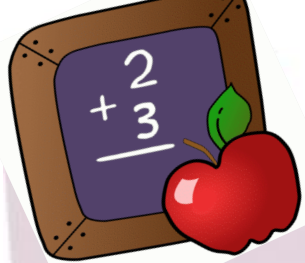
3- A)  $2X - 3$

$$B) C = \pi d = \frac{22}{7} \times 140 = 440 \text{ cm}$$

$$\frac{1}{2} C = \frac{440}{2} = 220 \text{ cm}$$

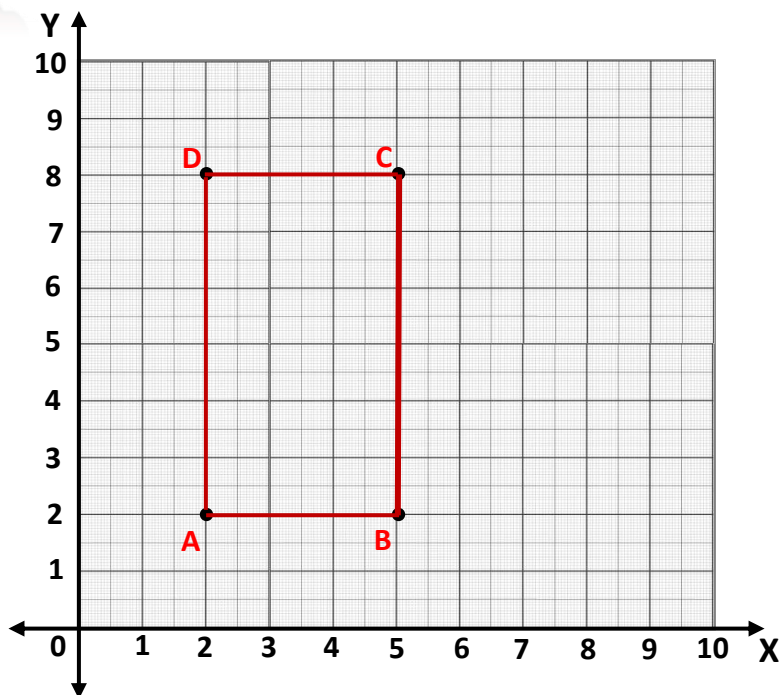
$$P = 220 + 140 = 360 \text{ cm}$$



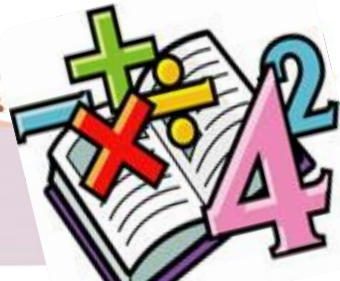
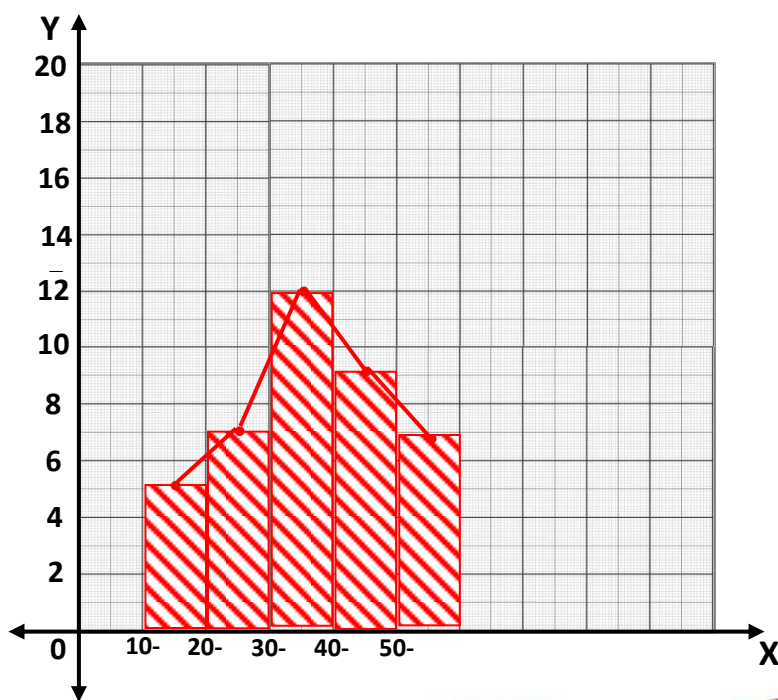


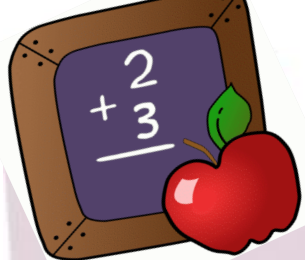
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4- A)



B) the value of A = 9





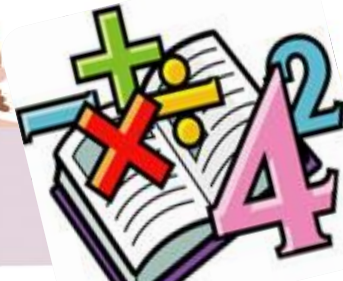
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Q5)

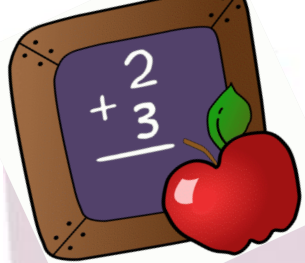
a)  $\frac{12}{24} = \frac{1}{2}$  ( Red )

b)  $\frac{1}{4} \times 24 = 6$  fadden

c)  $\frac{1}{8} \times 24 = 3$  fadden



Revision second term



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## Answer Test 2

1- a. 44      b. €      c. 2      d. 25

2- a. {6,7,8}      b. 0, 1      c. 0      d. odd

3- (a)  $372 \times (100 + 1)$   
 $= (372 \times 100) + (372 \times 1)$       Distribution  
 $= 37200 + 372 = 37572$

(b)  $8 \times 125 \times 582$       (Commutative)  
 $(8 \times 125) \times 582$       (Associative)  
 $1000 \times 582$   
 $582000$

(c)  $208 + 792 + 73 + 27$       (Commutative)

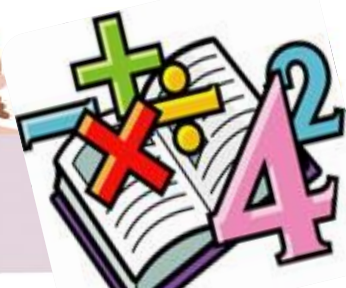
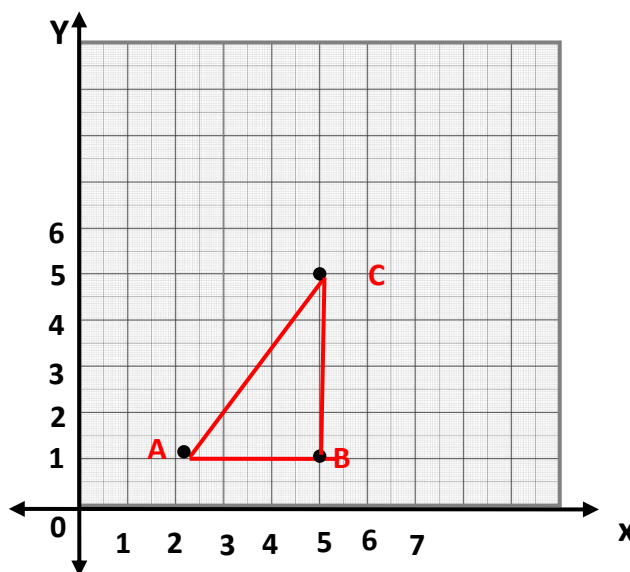
$(208 + 792) + (73 + 27)$       (Associative)  
 $1000 + 100 = 1100$

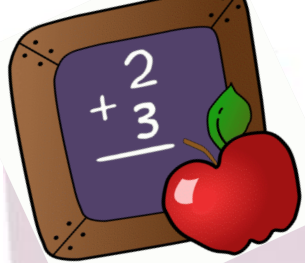
4- (a) Area =  $\frac{1}{2} \times$  base  $\times$  height  
 $= \frac{1}{2} \times 6 \times 8 = 24 \text{ cm}^2$

$DY = \frac{2 \times \text{area}}{\text{base}} = \frac{2 \times 24}{10} = 4.8 \text{ cm}$

(b)  $B - 2A = 10$

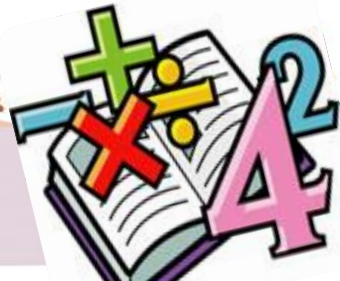
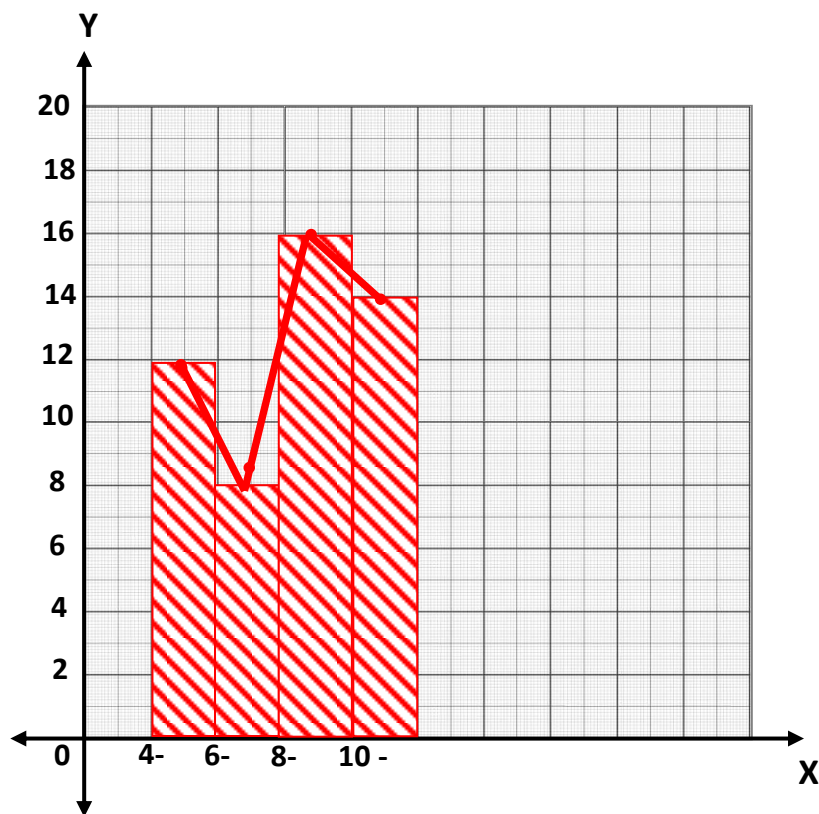
Or  $B = 2A + 10$



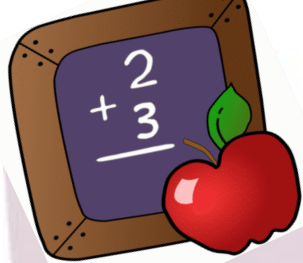


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Revision second term



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## Answer Test 3

- 1- a. 1-o                                  b.  $18 - x$                                   e.  $-\frac{1}{2} \times d \times d$  ,                                   $\frac{1}{2} \times B \times H$   
 c. O - N - Ø                                  d.  $28 - 35$

- 2- a.  $2x - 5$   
 b. ∈    c. { 4 , 5 , 6 }                                  d.  $44 \times \frac{7}{22} = 14 \text{ cm}$

3- A) Area of triangle =  $\frac{1}{2} \times B \times H = \frac{1}{2} \times 6 \times 8 = 24 \text{ cm}^2$

Area of square =  $\frac{1}{2} \times d \times d = \frac{1}{2} \times 8 \times 8 = 32 \text{ cm}^2$

Area of square > Area of triangle

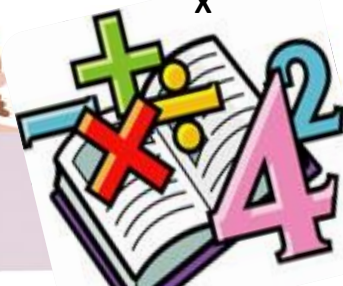
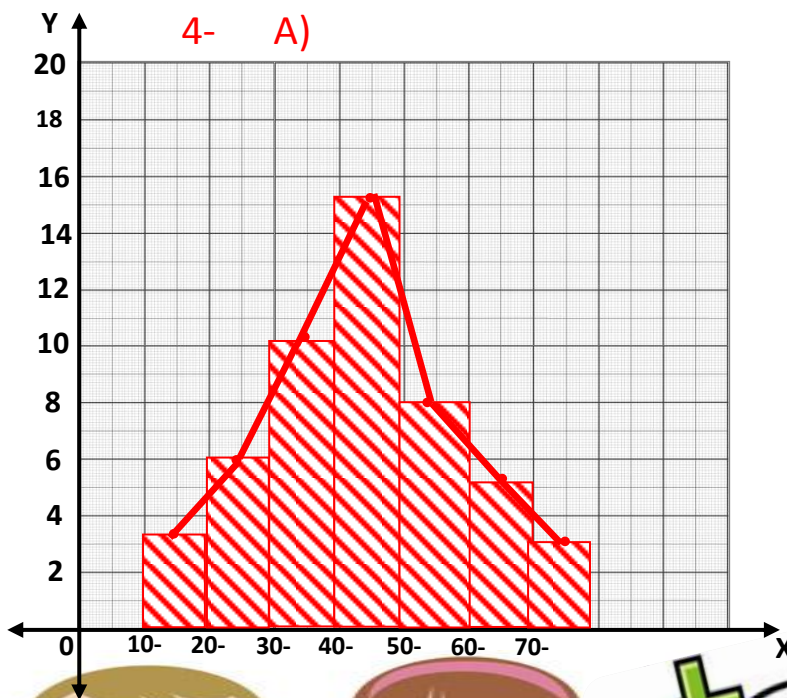
B) Perimeter =  $\frac{1}{2}$  circumference + 70 + 70 + 70

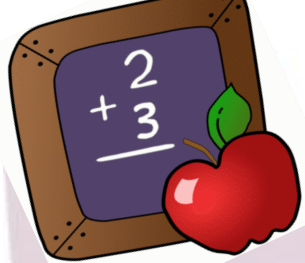
=  $(\frac{1}{2} \times \frac{22}{7} \times 70) + 210 = 110 + 210 = 320 \text{ cm}$

c)  $45 \times (100 - 1)$  (distribution)

=  $(45 \times 100) - (45 \times 1)$

=  $4500 - 45 = 4455$





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## Answer Test 4

- 1- a.  $8 + (3 \times 5) - 20$   
 $8 + 15 - 20 = 23 - 20 = 3$
- b.  $\{2\}$
- c.  $r = \frac{C}{2\pi}$   
 $r = \frac{88}{2 \times \frac{22}{7}} = \frac{88 \times 7}{2 \times 22} = 14 \text{ cm}$
- d.  $2x - 3$
- e. odd

2- (1)  $A \square = L \times W$

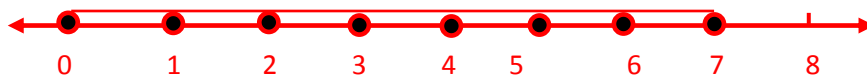
$$544 = L \times 17 \rightarrow L = \frac{544}{17} = 32 \text{ cm}$$

$$A \Delta = \frac{1}{2} \times \text{Base} \times \text{heights}$$

$$= \frac{1}{2} \times 8 \times 32 = 128 \text{ cm}^2$$

$$B = 25 - 17 = 8 \text{ cm}$$

(2)  $\{0, 1, 2, 3, 4, 5, 6, 7\}$



3- (A)  $c = \pi d$

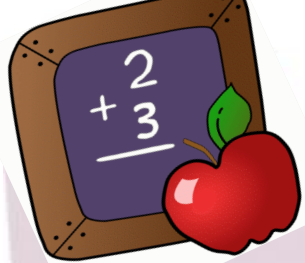
$$= \frac{22}{7} \times 28 = 88 \text{ cm}$$

$$132 \text{ m} = 13200 \text{ cm}$$

$$\text{The number of turns} = \frac{13200}{88} = 150 \text{ turns}$$







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(B) 1)  $x + 10$

2)  $x - 7$

$c - d_1 \times d_2 = 2A$

$d_1 \times 8 = 2 \times 36$

$d_1 = \frac{72}{8} = 9 \text{ cm}$

4- (a) 1

(b) E

(c)  $x = 2y + 7$

(d)  $316 \times (1000 + 1)$

$316 \times 1000 + 316 \times 1$  (distribution)

$316000 + 316 = 316316$

(e) €

(f)  $x - 4$

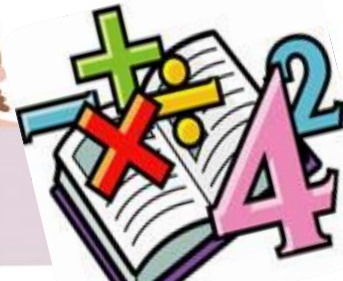
(g)  $X + 5$

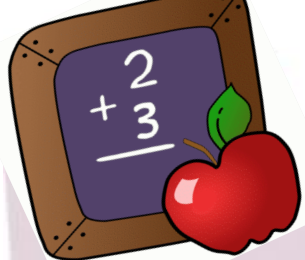
5- A) Area of square =  $\frac{1}{2} \times d \times d$

$= \frac{1}{2} \times 10 \times 10 = 50 \text{ cm}^2$

Area of triangle =  $\frac{1}{2} \times H \times B = \frac{1}{2} \times 8 \times 15 = 60 \text{ cm}^2$

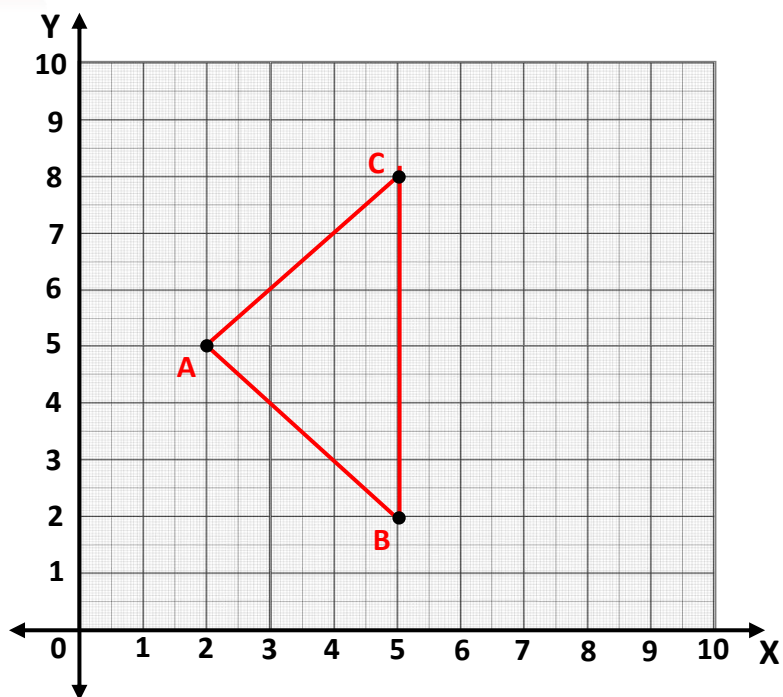
Area of triangle > Area of square





# Math 5<sup>th</sup> prim

C)



Bc = 6 units

*Good luck*

