Sheet (1)

1-Complete each of the following :

a)79.987 ≃ …….. (to nearest hundredth)

b)$24\frac{9}{500}$ ≃ …….. (to nearest tenth)

c)$16\frac{250}{10000}$ ≃…….. (to nearest thousandth)

d)99.999 ≃ …….. (to nearest hundredth)

e)19.989 ≃ …….. (to nearest hundredth)

2-Choose the correct answer :

a)16.7701 ≃ ……..(to nearest hundredths) [16.77 – 16 – 17]

b) 341.3691 ≃ ……. (to nearest thousandths)

[341.396910 – 341.370- 341.369 – 341.361]

c) 112.4365 ≃ ……(to nearest thousandths)[112.4 – 112.44 – 112.437 – 112.436]

d)196.6531 ≃ 196.65 to nearest……. [unit - tenth – ten - hundred – hundredths]

e) 374.4798 ≃ 374.480 to nearest …….[unit – thousands – tenth –hundredth – thousandths]

3- Carryout the following operations :

a) 0.398 + 0.2232 = ……. ≃ ……. to the nearest thousandths

b) 568.7 + 88.53 = ……. ≃ ……. to the nearest tenths .

c) 47.8 – 9.573 = ……. ≃ ……. to the nearest hundredths .

4- Write the greatest decimal number and smallest one which consists of 3 , 5 , 4 and 2 then approximate it to the nearest hundredth :-

The greatest =……. ≃ …….

The smallest = ……. ≃ …….

الامتحان التعليمي
www.exam-eg.com

5- Two pieces of cloth are of length 87.92 m and 82381 cm . Find the sum of the lengths of two pieces approximated to the nearest metre .

……..

……..

……

……

6- A road whose length is 57895 metres . Find its length approximated to the nearest kilometre ?

……..

……..

……

……

7- Write three numbers each of them approximated to nearest thousandths becomes 86.380

……..

……..

……

……

8-A trader had 954.678 kg of Mango. if he sold 357 kg find the remainder amount approximated to the nearest kilogram ?

……..

……..

……

……

الامتحان التعليمي
www.exam-eg.com

Sheet (2)

I- Estimate to place the decimal point in the underlined number :-

a) 1374 x 6 = 8.244

b) 136 x 0.25 = 0.3400

c) 211 x 9.6 = 20.256

d) 0.24 x 0.398 = 9552

e) 0.09 x 0.3 = 27

II- Choose the correct answer :

a) 125 x 0.8 = …….. [100.0 – 1000.00 – 10.00 – 0.1]

b) 3.4 x 6.2 = …….. [2.108 – 21.08 – 210.8 – 2108]

c)Each pupil in the 5^{th} grade uses 3.12 kg of cake each month . What is the amount of cake would be used by 7 pupils ? ……. [218.4 – 21.84 – 2.184]

d) 2.3 x 4 = …… [9.2 – 92 – 82 – 7.2]

e) $13\frac{1}{8} \simeq$ …… to nearest hundredth [13.100 – 13.120 – 13.13]

III- Find the product in each of the following :

a)342 x 0.01 = ……. ≃ ……. to the nearest unit .

b) 5.4 x 3.2 = ……. ≃ ……. to the nearest ten.

c) 14.35 x 0.6 = ……. ≃ ……. to the nearest hundredth .

d)0.004 x 64 = ……. ≃ ……. to the nearest thousandths .

e) 0.09 x 0.004 = ……. ≃ ……. to the nearest hundredths .

IV- Multiply :

a) × 0.07 / 0.5 ……

b) × 6.3 / 0.08 ……

c) × 0.93 / 0.6 ……..

d) × 0555 / 03 ……

e) × 9.11 / 00.1 ……

f) × 79.7 / 0.001 ……..

الامتحان التعليمي www.exam-eg.com

V-Put the suitable sign < , > , =

a)0.3 x1.5 ☐ 3 x0.5

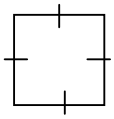
b) 4.2 x1.53 ☐ 4.2 x15.3

c) 65.9x 100 ☐ 659 x 10

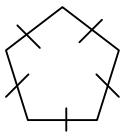
d) 0.206x0.9 ☐ 0.206 x 0.009

e) 0.891 x 0.01 ☐ 891 x 0.0001

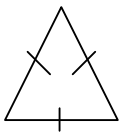
6- Calculate the perimeter of each of the following :



43.2 cm



51.5 cm



94.5 cm

Approximate the result to the nearest meter.

7- If the price of one metre of a cloth is L.E 17.5 then what is the price of 3.5 m of it ?

……..
……..
……

8- The height of a common flea is 2.5 mm it can jump 230 times of its own height .how high can it jump ? to nearest m ?

……..
……..
……

9- A snail travels about 0.005 km per hour . A spider 62.4 times as fast as the snail . how fast does the spider travel ?

……..
……..
……

الامتحان التعليمي
www.exam-eg.com

Sheet (3)

1- Find the result of each following :

a) 0.643 x 100 = ……

b) 1000 x 0.16 = …….

c) 13.51 x 100 = ……

d) 1.078 x 100 = …….

e)1000 x 6.7 = ……

f) 24.61 x 1000 = ……

g) 0.184 x 1000 = ……

h) 1.089 x 10000 = ……..

2- Multiply then match :

1) 4.783 x 100 = ……

2) 4.783 x 10 = ……..

3)4.783 x 1000 = ……..

4) 3.8 x 10000 = ……

5) 3.8 x 100000 = ……..

a) lies between 40 and 50

b) lies between 400 and 500

c) lies between 30000and 40000

d) liesbetween4000 and 5000

e) lies between3 thousand and 50 thousand

3- Complete :

a) 87.02 km = ……m

b) 3.2 kg = …….gm

c) L.E 6.5 = …… pt

d) 37.3 dm= ……cm

e) 1.5 m= ……..cm

f) 2.589m = …… cm

g) 0.03 m^2 = …..dm^2

h) 3.789 km = ……. m

4- Put suitable sign < , > , =

a) 7.87 x 10 ☐ 0.787 x 100

b) 18.915 x 100 ☐ 1891.5 x 100

c)0.431 x 1.2 ☐ 4.31 x 0.012

d) 32.14 x 10 ☐ 0.03214 x 1000

e) 0.076 x 1000 ☐ 7.6 x 10

الامتحان التعليمي
www.exam-eg.com

5- Complete each of the following :

a) 25.0825 ≃ …… to nearest thousandth

b) (5.423 + 9.575) x 10 ≃ …… to nearest tenth

c) 6.43 x 5.7 ≃ …….. to nearest hundredth

d) (3.45 x10) – 9.543 ≃…… to nearest hundredth

e) 0.8 x 28.72 ≃……..to nearest hundredth

6- The price of one meter of wire is L.E 7.85 . Find the price of 3.7 metres ?

……..

……..

……

……

7- If the perimeter of square is 89.4 cm . Calculate the perimeter of hundred separated squares which have the same perimeter ?

……..

……..

……

……

8- Ahmed saves L.E 8.89 from his pocket money in a month calculate how much money he saves in 100 months ?

……..

……..

……

……

الامتحان التعليمي
www.exam-eg.com

Sheet (4)

I- Divide :

a) 99660 ÷ 453 = ……

b) 19968 ÷ 256 = ……..

c) 19708 ÷ 453 = ……

d) 37440 ÷ 234 = ……..

e) 9262 ÷ 842 = ……..

f) 25625 ÷ 125 = …….

g) 42435 ÷ 345 = ……..

h) 6020 ÷ 215 = ……..

II- Choose the correct answer :

a) 4428 ÷ 123 = …….. [36 – 35 – 34 – 32]

b) 72795 ÷ 345 = …….. [311 – 111 – 211 – 231]

c) 37440 ÷ 234= ……. [160 – 170 – 200 – 190]

d) 11664 ÷ 216 = ……. [54 – 58- 62 – 68]

e) 15500 ÷ 125 = ……. [1240 – 124 – 125 – 120]

III- Complete :

a) The number 14.669 $\underline{\sim}$ 14.67 to nearest …….

b) 0.483 - $\frac{43}{500}$ $\underline{\sim}$ … ……to the nearest hundredth

c) 179860 ÷ 315 $\underline{\sim}$ ……. to the nearest hundredth

d) 8.458 x 10 $\underline{\sim}$ ……to the nearest tenth

4- A truck can carry 175 boxes. Find the number of trips needed to transport 159591 box approximated to nearest box ?

……..

……..

……

……

الامتحان التعليمي
www.exam-eg.com

5- Yehia bought a piece of land 4.57 feddans if the price of one Feddan is 57.59 L.E .
Calculate the price of this land and approximate it to nearest L.E

……..

……..

……

……

6- A scouting camp had 7136 pounds . If they are divided into groups each one had 22.3 scouts .
How many group are there ?

……..

……..

……

……

7- A truck can carry 265 water melons . Find the number of the trips needed to transport
54060 watermelons ?

……..

……..

……

……

الامتحان التعليمي
www.exam-eg.com

Sheet (5)

1- Find the quotient approximated to nearest two decimal place?

a) $\frac{1}{3} \simeq$ ……. b) $\frac{1}{6} \simeq$……. c) $3 \div 11 \simeq$…….

d) $57 \div 48 \simeq$ ……. e) $24 \div 108 \simeq$……. f) $8 \div 7 \simeq$…….

g) $12929 \div 517 \simeq$……. h) $13 \div 123 \simeq$…….

2- Complete :

a) $36844 \div 152 \simeq$ ……. to nearest thousandth

b) $4.8 \times 3.6 \simeq$ …… to nearest tenth

c) $2 \div 3 \simeq$ ……. to nearest thousandth

d) $5\frac{3}{4} - 3\frac{2}{200} \simeq$ …… to nearest thousandth

3- Aman bought a car for L.E 170750 he paid L.E 35000 and paid the rest in 110 equal installments . Find to the nearest L.E the value of each installment .

……..
……..

4- The height of an insect is 7.6 mm it can jump 148 times of its own height . how high can it jump ?

……..
……..

5- A road of length 64987 m find its length in km approximating the result to the nearest hundredth .

……..
……..

6- A factory produces 265 pieces of cloth monthly in how many months does its produce 9275 pieces of cloth ?

……..
……..

الامتحان التعليمي
www.exam-eg.com

Sheet (6)

1- Complete:

a) $\frac{2}{3} = \frac{4}{\ldots\ldots} = \frac{\ldots\ldots}{9} = \frac{\ldots\ldots}{12}$

b) $\frac{5}{6} = \frac{10}{\ldots\ldots} = \frac{\ldots\ldots}{18} = \frac{20}{\ldots\ldots}$

c) $\frac{5}{8} = \frac{10}{\ldots\ldots} = \frac{\ldots\ldots}{40} = \frac{\ldots\ldots}{80}$

d) $\frac{7}{\ldots\ldots} = \frac{14}{16} = \frac{\ldots\ldots}{24} = \frac{70}{\ldots\ldots}$

2-Put the suitable of < , > , = :

a) $\frac{7}{15} \ldots\ldots \frac{4}{15}$

b) $\frac{3}{5} \ldots\ldots \frac{6}{10}$

c) $\frac{3}{8} \ldots\ldots \frac{5}{8}$

d) $\frac{3}{7} \ldots\ldots \frac{3}{8}$

e) $\frac{5}{7} \ldots\ldots \frac{5}{8}$

f) $\frac{3}{8} \ldots\ldots 0.7$

3-Put (√) or (x) :

a) $\frac{7}{8} > \frac{78}{100}$ ( )

b) $3.7 > 4\frac{1}{9}$ ( )

c) $\frac{1}{4} = 0.25$ ( )

d) $\frac{3}{16} > \frac{3}{14}$ ( )

e) 0.5 = 0.50 ( )

f) 0.78 > 0.87 ( )

الامتحان التعليمي
www.exam-eg.com

4-Arrange each of the following in an ascending order :-

a) $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$, $\frac{3}{4}$

……

b) $\frac{2}{9}$, $\frac{5}{6}$, $\frac{1}{3}$, $\frac{5}{7}$

……

c) $4\ \frac{2}{7}, 4\ \frac{1}{5}, 4\ \frac{13}{35}, 5\ \frac{1}{2}$

……

5- Arrange each of the following in descending order :-

a) $\frac{7}{9}$, $\frac{2}{3}$, $\frac{5}{6}$, $\frac{1}{4}$

……

b) $2\ \frac{1}{9}, 2\ \frac{1}{7}, 2\ \frac{1}{8}, 2\ \frac{3}{4}$

……

c) $\frac{7}{12}$, $\frac{7}{24}$, $\frac{7}{18}$, $\frac{7}{33}$

……

d) $4\frac{7}{12}, 5\frac{7}{18}, 3\frac{7}{9}, 2\frac{1}{4}$

……

e) $\frac{7}{170}, \frac{170}{17000}, \frac{17}{17}, \frac{170}{17}$

……

الامتحان التعليمي
www.exam-eg.com

Sheet (7)

1- Multiply , then write the answer in the simplest form :-

a) $\frac{1}{5} \times \frac{2}{5} = \ldots\ldots\ldots = \ldots\ldots\ldots$

b) $\frac{5}{7} \times \frac{1}{2} = \ldots\ldots\ldots = \ldots\ldots\ldots$

c) $32 \times \frac{5}{8} = \ldots\ldots\ldots = \ldots\ldots\ldots$

d) $3\frac{1}{2} \times 4\frac{2}{5} = \ldots\ldots\ldots = \ldots\ldots\ldots$

e) $9\frac{2}{6} \times \frac{1}{3} = \ldots\ldots\ldots = \ldots\ldots\ldots$

f) $2\frac{1}{2} \times 1\frac{1}{10}$ = ……..= ……

2-Find the missing factor :

a) $\frac{3}{5} \times \ldots\ldots\ldots = \frac{9}{25}$

b) …… $\times \frac{3}{8} = \frac{15}{48}$

c) $4\frac{1}{2} \times \ldots\ldots\ldots = 9$

d) $7\frac{1}{3} \times \ldots\ldots\ldots = 22$

3- Yehia is tiling $\frac{2}{5}$ of the bathroom wall , if a quartered ceramic tiles is red . How much of the bathroom wall be covered with red tiles ?

……..
……..
……
……

4- If $\frac{5}{8}$ of a 32 pupil class play football . how many pupils play football ?

……..
……..
……
……

5- The perimeter of a square is $\frac{8}{11}$ m . Find the length of each side of the square

……..
……..
……
……

6- Mariam went to the market she bought 4.7 kg of fish each for 15 pounds each and 4 kg of apples each for 9.25 .How many pounds did she pay ?

……..
……..
……

الامتحان التعليمي
www.exam-eg.com

Sheet (8)

I- Divide

a) $5\frac{2}{3} \div 3\frac{1}{2}$ .....

b) $2\frac{3}{4} \div 1\frac{4}{5} =$ .....

c) $\frac{7}{10} \div \frac{2}{5} =$ .....

d) $2\frac{1}{4} \div 9 =$ .....

e) $\frac{3}{4} \div \frac{9}{10} =$ .....

f) $\frac{4}{5} \div \frac{1}{2} =$ .....

2- Put the suitable sign >, < , =

a) $\frac{4}{5}$ ..... $\frac{2}{3}$

b) $7 \times \frac{1}{3}$ ..... $2\frac{1}{3}$

c) $\frac{3}{4} \div \frac{2}{3}$ ..... $\frac{5}{7}$

d) $\frac{1}{2} \div \frac{3}{10}$ ..... $\frac{2}{5} \div \frac{5}{7}$

e) The reciprocal of $\frac{2}{3}$ ..... $\frac{2}{3}$

3- If the length of four pieces of cloth is $13\frac{1}{3}$ meters . Find the length of one piece ?

……..
……..
……
……

4. How many $\frac{3}{4}$ are there in $7\frac{1}{2}$ oranges ?

……..
……..
……
……

5. A man earns L.E $14\frac{1}{4}$ in3 days . How much does he earn in one day ?

……..
……..
……
……

الامتحان التعليمي
www.exam-eg.com

Sheet (9)

1) State which of the following is set or not?

a) The colours of the Egyptian flag . (……)
b) intelligent pupils in the class. (……)
c) Months in the Hejira calendar. (……)
d) Arabic countries . (……)
e) Big numbers . (……)
f) Seasons of the years. (……)
g) Arabic countries . (……)
h) the letters in the English alphabet. (……)
i) The letters in the word Mathematics. (……)

2) Write two elements only of each of the following :

a) The months of the Christian calender .
……..
b) World continents
……..
c) Arabic currencies
……..
d) Mathematical operations
……..
e) The prime factors of 12
……..

3) Express each of the following :-

a) A = the set of the digits in the number 79190
……..
b) F = the set of the months of the year beginning with "J"
……..
c) H = the set of the rivers in Egypt
……..
d) K = the set of the first five letters of the English alphabet
……..
e) J = the set of number on a dice
……..
f) E = the set of the days in the week
……..

الامتحان التعليمي
www.exam-eg.com

4) Express each of the following sets in words :-

a) x = { 2 , 4 , 6 , 8 } ……..

b) A = { A , H ,M ,E , D } ……..

c) B= { a , l , i } ……..

d) z = { 2 , 3 , 5 , 7 } ……..

e) E = { 6 } ……..

f) { 1 , 3 , 5 , 7 } ……..

5) Complete using the suitable sign ∈ , ∉

a) 4 ……{ 4 , 6 }

b) 0 ……. { 30,40}

c) 2…… { 12,22}

d) 40 ……. { 40 , 30 , 50 }

e)67 ……. { 9 , 6 , 76 }

f) m ……..(m , k , n }

g) $\frac{3}{8}$…….. { 2 , 3 , 8 , 7 }

i) 11 …… { 5116}

6- Complete by using suitable symbol of = or ≠

a) { 5 } …… { 5 }

b) { 1 , 2 } ……. { 2 , 1 }

c) { 6 , 2 , 3 } …… { 26 , 3 }

d) { 35 } ……. { 53 }

e) { khaled } ……..{k , h , a , l , e , d }

f) { 12 } ……. { set of years}

7- Find the value of x :

a){ x } = { 3 } then x = ……

b) { 1 , 4 } = { x , 1 } then x = ……

c) { 6 , x- 1 } = { 6 , 3 } then x = ……

d){ x+ 5 } = { 9 } then x = ……

e){2 , 4, x + 1 } = { 2 , 5 , 4 } then x = ……

الامتحان التعليمي
www.exam-eg.com

Sheet (10)

I- Write the type of the set (finite , infinite , empty) :-

a) The set of Arabic countries in Australia (……..)

b) The set of prime factors of 13 (……..)

c) The odd numbers between 13 and 15 (……..……)

d) The set of even number less than 10 (……..)

e) The set of triangles having 4 sides (……..……)

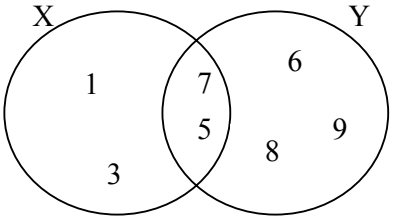
II- Using sign of $\in, \notin$

a) 1 …… x , 5……..x

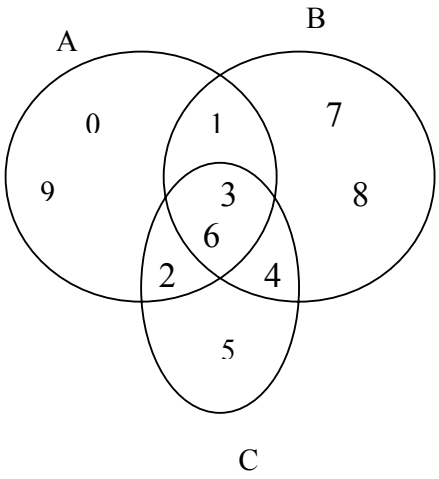
b) 3……....y , 7 ……. x

c) 6……x , 9……..y

d) 8……y , 1……..x



III- Using of diagram :-



A= { ……..}
B= { ……. }
C= { ……. }

4- Put the suitable ($\in, \notin, \subset, \not\subset$)

a) { 2 , 3 } …….. { 1 , 2 , 3 }

b) { b } ……. { b , c }

c) 32 …….. { 32 }

d) { 0 } …….. Ø

e) 52 …….the set of digits of the number5252

f) 1 …….. { 0 , 10 }

الامتحان التعليمي
www.exam-eg.com

g) 5 ……. { 55 }

h) { 22 } ……. { 2 }

i) { 3 , 5 , 6 } …….. { 3 , 5 }

5- Find the number x so that each :-

a) { x} $\subset$ { 5 }

x =……

b) { 0 } $\subset$ { 2 , x , 5 }

x =……

c) { x } $\subset$ { 1 , 2 }

x =……

d) { 5 , x } $\subset$ { 3 , 5 , 7 , 9 }

x =……

e) { 2 } $\not\subset$ { 5 , x }

x =……

f) { 1 , 3 , 7 } $\not\subset$ { 1 , 3 , x }

x =……

g) {7 , 9 } $\subset$ { 5 , 7 , x }

x =……

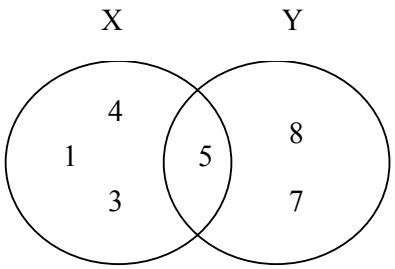
h) { 3 , x – 1 } $\subset$ { 4 , 3 }

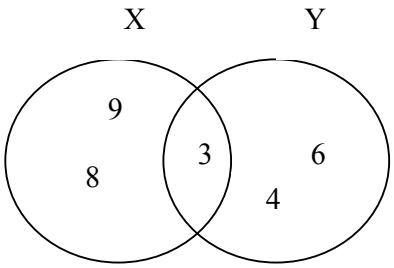
x =……

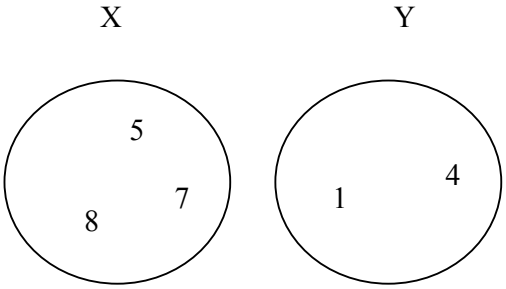
الامتحان التعليمي
www.exam-eg.com

Sheet (11)

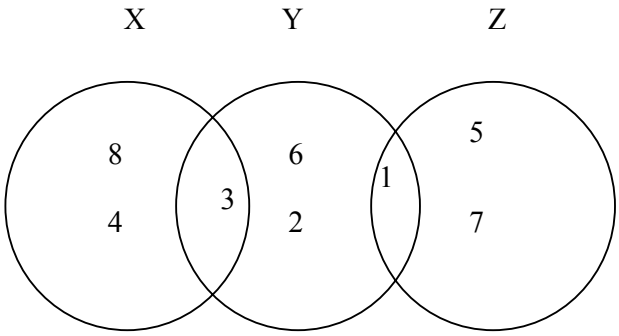
1) By using the following figures . Find x ∩ y :







2) The Venn diagram below shows sets x & y & z :



List of element :

a) x ∩ y

……

b) x ∩ z

……

c) x ∩ z

……

d) x ∩ y ∩ z

……

الامتحان التعليمي
www.exam-eg.com

3) Find of each following :

a) { 2 , 3 , 4 } ∩ { 3 , 5 , 2 , 6 }

b) { 46 } ∩ { 64 }

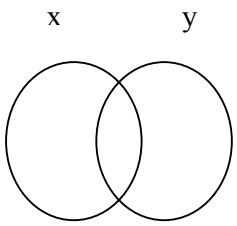
c) { } ∩ { 0 }

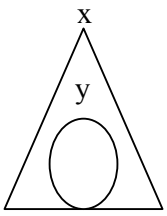
d) Ø ∩ { 5 , 6 , 7 }

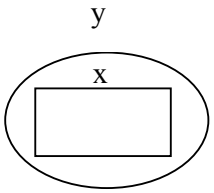
e) Ø ∩ Ø

f) { 44 } ∩ { 4 }

4- If each of the following shade the part represent x ∩ y







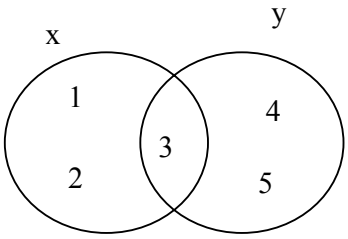
5- Put the suitable sign $\in, \notin, \subset, \not\subset$

a) 3 ..... (x ∩ y)

b) { 1 , 2 , 5 } ..... x ∩ y

c) {3} ..... x ∩ y

d) { 3 , 4 } ..... x ∩ y



6- Choose the correct answer :

a) x = { 2 , 5 } ∩ { 5 , 7 , 8 } then x =..... [2 , 5 , 7 , 8]

b) { 4 , 3 } ∩ { x,1 , 2 } = { 3 } than x = ... [1 , 2 , 3 , 4]

c) If { 2 } ∩ { x } = { 2 } ,then x = ... [22 , 2 , zero , Ø]

d) If { 15 , x } ∩ { 5 , 1 } = { 5 } ,then x = ... [15 , 5 , 1 , zero]

e) If {5,3 } ∩ { 3 , 9 } = { x } then x = ... [9 , 3 , 5 , 9]

الامتحان التعليمي
www.exam-eg.com

Sheet (12)

1. By using the opposite Venn diagram find :-

a) A = ……..

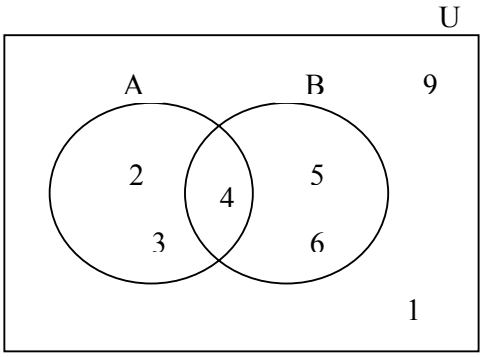
b) B = ……..

c) A ∩ B = ……..

d) A ∪ B = ……

e) U ∪ A = …….

f) A ∩ U = …….



2- Choose the correct answer :

a){ 1 , 9 } ……. { 1 , 2 , 3 , 9 , ……,11 } [⊂ , ∈ , ∉ , ⊄]

b) If { 3 , 6 , 9 } = { 9 , x , 3 } then x= …….. [3 , 6 , 9 , 0]

c) Number of subsets of the set { 7 } = …… [1 , 2 , 3 , 7]

d) Ø ……. { 0 } [= , ⊂ , ∈ , ∉]

3- If U = { 1 ,2 , 3 , 5 , 6 , 9 } ,x = { 1 , 2 , 3 }
y = { 2 ,3 ,5 } Draw the Venn diagram , then find : -

a) x ∩ y = ……..

b) x ∪ y = ……..

c) x ∪ U = ……..

d) x ∩ U = ……..

4- Complete :

a) x ∩ x = ……

b) x ∪ x = ……

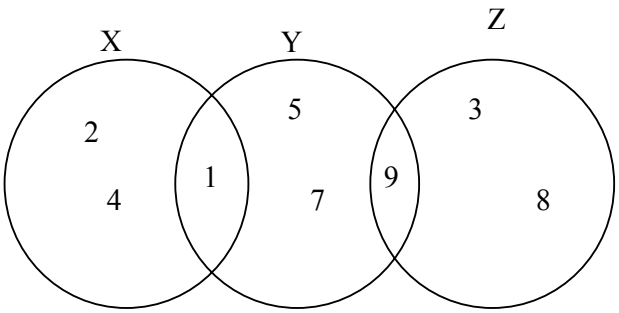
c) x ∪ Ø = ……..

d) x ∩ Ø = ……

الامتحان التعليمي
www.exam-eg.com

Sheet (13)

1- Using of opposite Venn diagram :



a) $x \cap z$ = ……

b) x – y = …….

c) y – z = ……..

d) $x \cup y$ = …….

e) z – x = ……..

f) z – y = ……..

2- Put the suitable sign of $\in, \notin, \subset, \not\subset$

a) 12 ……. { 10 , 2 }

b) { 7 } ……the set of odd numbers .

c) 3 …… { 3 }

d) Ø ……{ 0 }

e) { 2 , 5 , 9 } …….the set of prime numbers.

3- U = { 1 , 2 , 3 , 4 , 5 , 6 , 7 } ,x = { 1 , 3 , 5 , 7 } , y = { 2 , 4 , 6 }

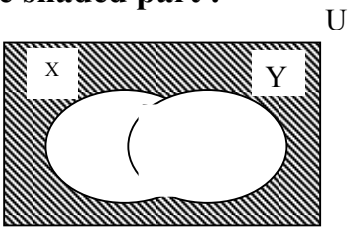
a) $(x \cap y)' =$…….

b) $x' \cup y'$ = ……..

c) x – y = ……..

d) $x \cap y'$ = ……

4- Express the shaded part : -



5- Choose the correct answer :

a) 35 ……. { 5 , 3 , 53 } [$\in, \notin, \subset, \not\subset$]

b) Ø …….. { 3, 5 } [$\in, \notin, \subset, \not\subset$]

c) If x { 4,5 } – { 1, 4 , 7 } ,then x = ……. [1 , 4 , 5 , 7]

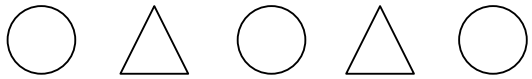
d) (x')' = ……. [x, $\cup$, x' , Ø]

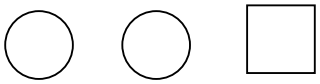
e) Every rectangle is …….. [square, rhombus , parallelogram]

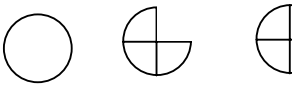
الامتحان التعليمي
www.exam-eg.com

Sheet (14)

1- Discover the rule and find the text one:

(a)  ……..

(b)  ……

(c)  ……

2- Complete:

(a) the chord is a ……

(b) the diameter is the longest ……

(c) the diameter length = 2 x the length ……

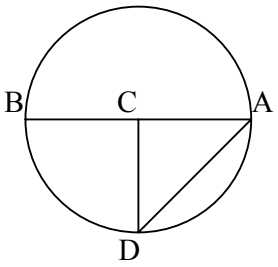
(d) in the opposite figure:

(1) $\overline{AB}$ is a …… in the circle.

(2) $\overline{BC}$ is a ……in the circle.

(3) The point …… is the centre of the circle.

(4) $\overline{AD}$ is a …… in the circle.



3– Draw a line segment with the length given. Use it as a radius to construct a circle.

(a) 2 . 5 cm

(b) 4 cm

4– Draw the circle M with radius length 5 cm, then draw the diameter AB and the two chords AC and BC find the type of the triangle ABC according to the measures of its angles.

5 – Draw the circle M with diameter length 6 cm. and draw two perpendicular diameters BD and AC , then draw AB , BC, CD and DA what can we say about the polygon ABCD?

الامتحان التعليمي
www.exam-eg.com

Sheet (15)

1 – Draw the triangle xyz in which xy = 10 cm, yz = 8 cm. and xz = 6 cm , then find the measure of the angle xzy , what do you notice ?

2 – Draw the triangle ABC in which AB = 7 cm, BC = 3.5 cm and AC = 4.5 cm . find the type of the triangle according to its side lengths.

3– Draw the triangle ABC in which AB = AC = 4 cm and BC = 7 cm , then find the kind of the triangle according to the measures of its angles.

4– Draw the triangle ABC where AB = AC = 5 cm and BC = 6 cm , in which D is the midpoint of BC, then draw $\overline{AD}$ and the find the measure of ($\angle ADB$) and find the length of the line segment AD.

5– Draw the triangle ABC in which AB = 10 cm, BC = CA = 7cm. What type of Δ ABC according to its sides?

6– Draw a circle whose diameter is 8cm. Long and its centre is O ,$\overline{AB}$ is a diameter of this circle

Draw the triangle DAB where DA = BD = 8 cm , $\overline{DA}$ and $\overline{DB}$ cut the circle in x and

y respectively.

الامتحان التعليمي
www.exam-eg.com

Sheet (16)

1 - Draw the triangle ABC in which AB = AC = 8cm. and Bc = 6cm . Draw its three altitudes then find the length of each one of them (the heights) , what do you notice?

2– Draw the triangle LMN in which LM = 6 cm , and LN = MN = 5 cm, using your geometric instruments, draw the three altitudes LX , MY and NZ , and find the Length of each one of them.

3– Draw the triangle XYZ in which XY = 6 cm, YZ = 8 cm. and m ($\angle$ Y) = 120° Draw the three perpendicular Line segments , then measure their lengths (the heights).

4– Draw the equilateral triangle ABC whose perimeter is 18 cm , then draw the three altitudes of this triangle . what do you notice?

الامتحان التعليمي
www.exam-eg.com

Sheet (17)

1 – As rolling a fair die and observing the upper face , complete the following:

(a) the probability of appearance of the number 4 = ……

(b) the probability of appearance of an even number = ……

(c) the probability of appearance of a prime number = ……

(d) the probability of appearance of a number divisible by 5 = …

(e) the probability of appearance of a number less than or equal 6 = ……

2 – Complete :

(a) if a coin is flipped once , then the probability of appearance of a head = ……

(b) A box has 5 white balls , 7 red balls, 3 blue . if a ball is drawn randomly from the box , then the probability that the ball is blue = ……

(c) if one of the digits of the number 867742231 is selected randomly , then the probability that the selected number is even equals ……

(d) A box contains 48 oranges and 4 oranges of them are bad . if an orange is drawn randomly , then the probability that the drawn orange is bad = …… and the probability that the orange is good = ……

3– A bag contains 5 red balls , 3 yellow balls and 2 black balls. If all balls are alike and a ball is drawn from the bag randomly , find :

(a) the probability that the drawn ball is yellow

(b) the probability that the drawn ball is yellow or red

(c) the probability that the drawn ball is not yellow

الامتحان التعليمي
www.exam-eg.com