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**Ehab Fahmy , Trainer and GAT expert**

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# GAT



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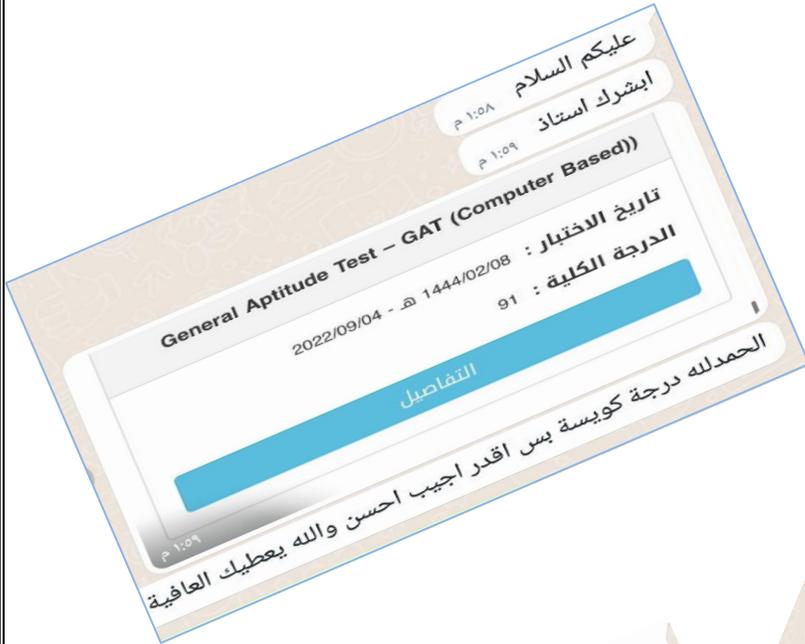
## Getting started

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السلام عليكم استاذ ايهاب كيف حالك  
٤:١٢ م  
طلعت نتائج الفترة الثانية و حاب ابشرك جبت ٩١ 😊  
٤:١٣ م  
هذا كله بفضل ربي ثم جهودكم  
٤:١٥ م  
و يعطيك العافية 💕💕  
٤:١٥ م  
عليكم السلام ورحمه الله وبركاته حبيب قلبي  
الف الف مليون مبروك تستاهل والله ربنا يسعدك ويوفقك دائما  
٤:٤٧ م  
امين واياك يارب 💕💕  
١١:٣٦ م

صباح الخير أستاذنا، الحمد لله وصلتني درجة التحصيلي وربي عوضني جزاك  
الله خيرا (89)  
٩:٣٣ ص

السلام عليكم استاذ  
٦:١٠ م  
الحمد لله جبت ٩١ في الكوي  
٦:١٠ م  
و حاب الشكر على جهودك وتبريسك اننا  
٦:١١ م

هلا والله  
١٢:٤٧ م  
الحمد لله  
١٢:٤٧ م  
جبت ٩٤  
١٢:٤٧ م  
و اول محاولة ١٧  
١٢:٤٧ م  
بسم الله ماشاء الله يا سالم موفق دائما وعقبال القبول الجامعي  
١٢:٤٨ م

١٢:٤٨ م  
hello sir  
٥:٤٩ م  
i just wanted to let u know  
٥:٤٩ م  
that i made another gat attempt  
٥:٤٩ م  
and i scored alhamdulillah 91  
٥:٤٩ م  
thank you for your help  
٥:٤٩ م  
بسم الله ماشاء الله  
٦:١٢ م  
Congratulati ons 🙌  
٥:٥٩ م  
بسم الله ماشاء الله  
٦:١٠ م  
thank you sir  
٧:٣٠ م

الحمد لله ي مستر  
١٠:٥٥ م  
جبت ٩١  
١٠:٥٥ م

انشالله يارب  
٦:٠٩ م  
وشكرا لك يا استاذ التسعين ما جات الامن وراك  
٦:١٠ م  
٦:١٦ م



MR / Ehab Fahmy

00966569061170

Q 1

1. Ahmed cuts a distance of 3 Km in 40 minutes at the same rate . How many kilometers will he cut on an hour ?

- A. 10 km                                      B. 8 Km                                      C. 6.5 km                                      D. 4.5 Km

2.  $x + y = 6$  ,  $x \cdot y = 8$  find out the value of  $x^2 + y^2$  ?

- A. 20                                      B. 60                                      C. 90                                      D. 120

3 . What is the value of  $2 - \frac{1}{4} + 1 - \frac{1}{2} + 3 - \frac{9}{4} = \dots\dots\dots$

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

4.what is the value of  $\frac{1}{1 + \frac{1}{1 + \frac{1}{4}}} = \dots\dots\dots$

5. If  $\frac{x}{x^2} = \frac{2}{20}$  , find out the value of x ?

- A. 10                                      B. 40                                      C. 50                                      D. 100

6. the value of  $102^2 - 98^2$  is .....

- A.200                                      B.400                                      C. 600                                      D. 800

7.  $\frac{\sqrt{5}-\sqrt{3}}{(\sqrt{5}+\sqrt{3})^{-1}} = \dots\dots\dots$

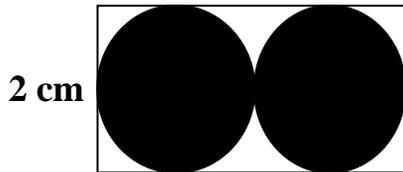
- A. 5                                      B.3                                      C. 2                                      D.  $\sqrt{2}$



8. If  $3^{2x+1} = 243$ , find the value of  $x$ ?

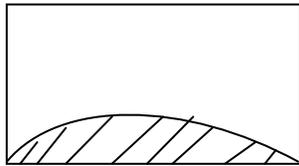
- A. 5                                      B. 1                                      C. 2                                      D. 3

9. In the figure below there are two equal circles inscribed on a rectangle, find the unshaded region?



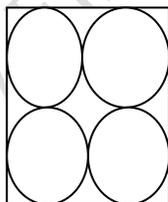
- A.  $8 - 2\pi$                                       B.  $4 - \pi$                                       C.  $6 - 3\pi$                                       D.  $1 - \pi$

10. In the figure below the area of the rectangle is 40 cm, the circumference of the circle is  $4\pi$ . Find the unshaded region?



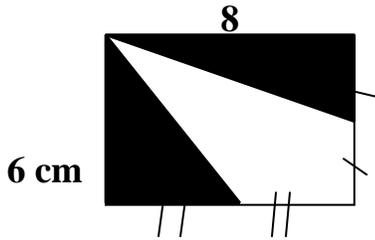
- A.  $40 - 2\pi$                                       B.  $40 - 4\pi$                                       C.  $40 - 8\pi$                                       D.  $40 - 16\pi$

11. In the figure below the side of square is 8, find the area of each circle if they are equal?



- A.  $4\pi$                                       B.  $12\pi$                                       C.  $16\pi$                                       D.  $8\pi$

12. In the figure bellow , find the area of the un shaded region ?



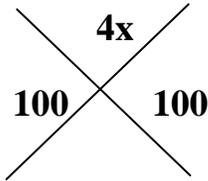
A. 20

B.22

C.24

D. 30

14 . In the figure bellow find the value of x ?



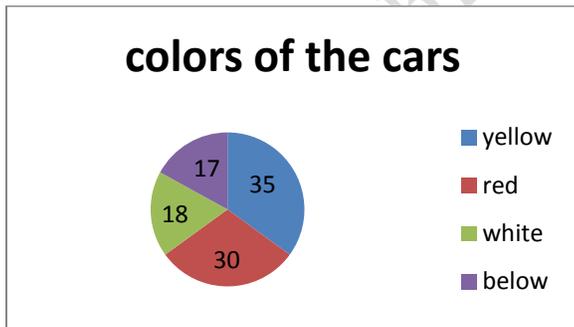
A. 15

B. 25

C. 20

D. 30

15 . In the figure bellow, shows the colors of cars in a motor show , find the angle which represent the red cars ?



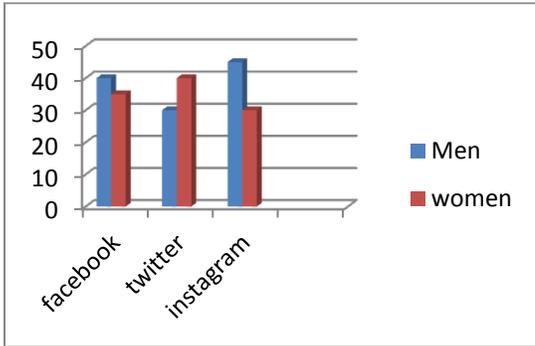
A.  $100^\circ$

B.  $108^\circ$

C.  $120^\circ$

D.  $125^\circ$

15 . In the figure bellow find the average of the people who use twitter ?



A. 35

B. 40

C.45

D. 50

16.

compare

10.1	$\frac{0.03}{0.3} + \frac{0.3}{0.03}$
------	---------------------------------------

17 .

compare

$\sqrt{0.81}$	0.9
---------------	-----

18.

compare

The small angle between the hour hand and the minute hand at 7 : 15	120 °
---	-------



19.

compare

<b>99</b>	<b><math>\sqrt{99} + \sqrt{99}</math></b>
-----------	---

20 .

compare

<b>50% of 700</b>	<b>70% of 500</b>
-------------------	-------------------

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Q2

1. find the product of  $63 \times 274 \times 4 =$

- A. 69048                      B. 97842                      C. 7256                      D. 69840

2. Find the value of  $\frac{1}{4} + \frac{1}{3} + \frac{3}{4} + \frac{2}{3} =$

- A. 1                      B. 2                      C.  $\frac{5}{12}$                       D.  $\frac{7}{12}$

3. Find the value of  $\frac{4\sqrt{18}-\sqrt{8}}{5\sqrt{2}} =$

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

4. Find the value of  $0.9 + 0.09 + 0.009 =$

- A. 0.999                      B. 0.099                      C. 0.009                      D. 9.999

5. If  $\frac{x}{y} = 11$  , find the value of  $\frac{3y+x}{2y} =$

- A. 8                      B. 6                      C. 7                      D. 4

6. which of the next is a prime number ?

- A. 1101                      B. 101                      C. 1011                      D. 1100

7. If  $3x - y = 15$  ,  $x = 3$  find the value of  $y$  ?

- A. -6                      B. 15                      C. -12                      D. 3



8. find the value of  $\sqrt{0.25 \sqrt{\frac{16}{81}}} =$

- A.  $\frac{1}{4}$                       B.  $\frac{1}{9}$                       C.  $\frac{1}{5}$                       D.  $\frac{1}{3}$

9. If  $1 + \frac{1}{2x+1} = \frac{8}{5}$ , find the value of x ?

- A.  $\frac{1}{3}$                       B. 3                      C. 9                      D. 5

10.  $\frac{x^2-y^2}{x-y} = \frac{9}{2}$  find the value of x + y ?

- A. 3                      B. 4                      C. 4.5                      D. 5

11. Today is Wednesday, what day will be after 80 days ?

- A. Saturday                      B. Sunday                      C. Monday                      D. Friday

12. find the unite digit of  $2^{98}$

- A. 1                      B. 4                      C. 6                      D. 8

13. complete the pattern 3, 7, 15, 31, .....

- A. 63                      B. 153                      C. 127                      D. 84

14. Find the value of  $\frac{2^{62} \times 5^{60}}{100^{30}} = \dots\dots\dots$

- A. 4                      B. 50                      C. 100                      D. 200



15. The sum ages of Mohamed and Ahmed Now is 20 years and after two years Mohamed s age will be twice as old as Ahmed , find Mohamed s age now ?

A. 6 years

B. 8 years

C. 14 years

D. 16 years

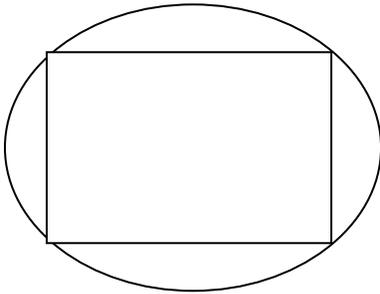
16 . The sum of three consecutive odd numbers is 57 , find the sum of the first two numbers ?

A. 36

B. 32

C. 51

D. 57



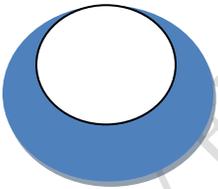
17. In the figure above the length of the rectangle is 8 and its width is 6 find the circumference of the circle ?

A.  $5\pi$

B.  $10\pi$

C.  $20\pi$

D.  $25\pi$



18. In the figure above , the radius of the big circle is 10 cm and the radius of the small one is 5 cm . find the shaded region ?

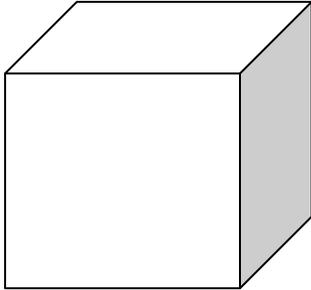
A.  $50\pi$

B.  $75\pi$

C.  $90\pi$

D.  $100\pi$





19 . In the figure above , if the diagonal 's of the cube face is  $2\sqrt{2}$  , find its volume ?

A. 4

B. 8

c. 12

D.  $8\sqrt{2}$

20 .

Compare

$\sqrt{144}$	$\sqrt{100} + \sqrt{44}$
--------------	--------------------------

21. If  $x \neq \text{zero}$

Compare

$\frac{6 + 4 + 5 + 5}{5x}$	$\frac{x}{4}$
----------------------------	---------------



### Q3

1. The unit digit of the number  $3^9$  is .....

- A. 3                                      B. 9                                      C. 7                                      D. 1

2. Find the value of  $87955936 \div 284 = \dots\dots\dots$

- A. 309704                                      B. 304523                                      C. 444401                                      D. 40500

3. A number is doubled and 9 is added if the resultant is tripled, it becomes 75. What is that number?

- A. 4                                      B. 8                                      C. 16                                      D. 24

4.  $\sqrt{48}$  is equal to .....

- A.  $3\sqrt{2}$                                       B.  $4\sqrt{3}$                                       C.  $18\sqrt{3}$                                       D. 24

5. If  $\frac{1}{3}$  of a number = 25% of 12, then that number is .....

- A. 9                                      B. 18                                      C. 27                                      D. 36

6. Find the value of  $\frac{9^6 - 9^4}{9^3 - 9^2}$

- A.  $9^2 \times 10$                                       B.  $9^3$                                       C.  $9^4$                                       D. 90

7. Find the value of  $\frac{400}{10} + \frac{4}{1000} + \frac{4}{100} =$

- A. 44.044                                      B. 40.044                                      C. 4.044                                      D. 40.444

8. If  $\frac{1}{2}x + \frac{1}{4}y = 32$  , then  $2x + y = \dots\dots$

- A . 32                      B . 128                      C . 64                      D . 16

9. If  $\frac{1}{x+\frac{1}{2}} = \frac{1}{2+\frac{x}{2}}$  Then  $x$  is = .....

- A. 3                      B. 2                      C. 1                      D. 4

10 . complete the pattern :- 3 , 4 , 6 , 9 , 13 , .....

- A. 15                      B. 18                      C. 19                      D. 20

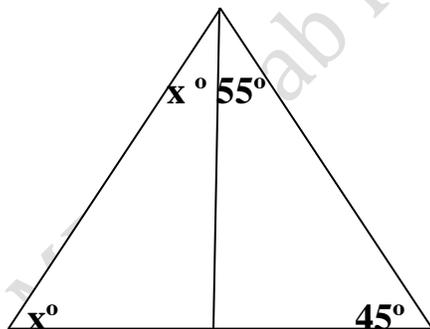
11. Find the average of all the numbers between 6 and 34 which are divisible by 5 ?

- A. 5                      B. 10                      C. 15                      D. 20

12. Today is Tuesday find the day after 59 days ?

- A. Wednesday                      B. Thursday                      C. Friday                      D. Saturday

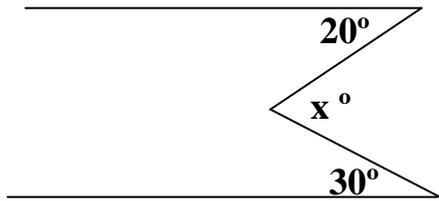
13 .



In the figure above , find the value of  $x$  ?

- A.  $40^\circ$                       B.  $100^\circ$                       C.  $120^\circ$                       D.  $135^\circ$

14.



In the figure above , find the value of  $x$  ?

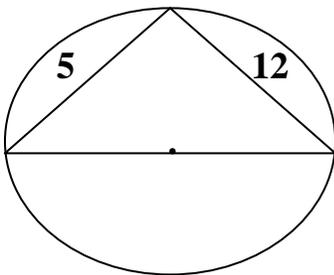
A. 20

B. 30

C. 50

D. 25

15.



In the figure above , find the circumference of the circle ?

A.  $10\pi$

B.  $12\pi$

C.  $13\pi$

D.  $15\pi$

16. The value of  $\frac{0.10}{0.5}$  is :

A. 2

B. 0.2

C. 0.5

D. 5

17. Ahmed's age after 15 years will be 5 times his age 5 years back. Find out the present age of Ahmed ?

A. 10 years

B. 11 years

C. 12 years

D. 13 years

18.

## STUDENT ENROLLMENT AT A SMALL COLLEGE

Distribution of Enrollment by Class and Gender

Total Enrollment: 1,400

Class	Males	Females
Freshmen	303	259
Sophomores	215	109
Juniors	182	88
Seniors	160	84
Total	860	540

This question has 4 answer choices, labeled A through D . Select the best one of the answer choices given.

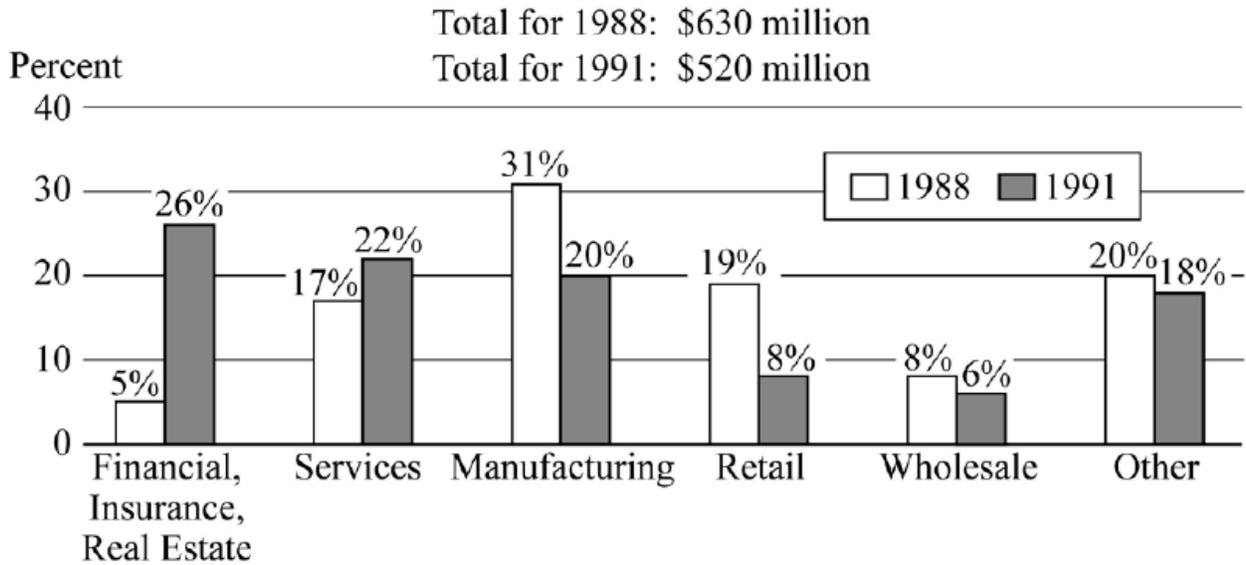
The ratio of the number of male freshmen to the number of female sophomores is approximately

- A. 2 to 1
- B. 3 to 1
- C. 3 to 2
- D. 4 to 1

19.

Refer to the figure.

Corporate Support for the Arts by Sector in 1988 and 1991



This question has 4 answer choices, labeled A through D . Select the best one of the answer choices given.

How many of the six corporate sectors listed each contributed more than \$60 million to the arts in both 1988 and 1991 ?

- A. One
- B. Two
- C. Three
- D. Four

Compare

20 .

$(0.75 \times 88) \div 3$	30
---------------------------	----

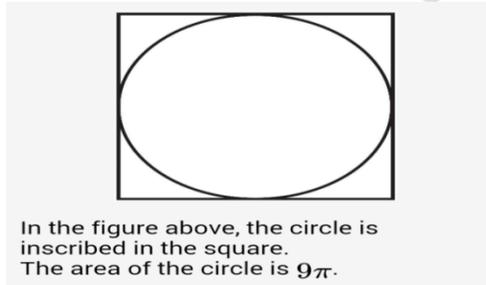


### Compare

21 .

$\frac{1111}{11}$	<b>11</b>
-------------------	-----------

### Compare



22.

<b>The area of the square</b>	<b>30</b>
-------------------------------	-----------

Q 4

1. . The value of  $\frac{4}{\frac{2}{4}} + \frac{4}{\frac{2}{6}} + \frac{9}{\frac{3}{9}} = \dots\dots\dots$

A . 46

B . 47

C . 4

D. 49

2. Find the value of  $0.5 \times 0.1 \times 0.01 \times 10 = \dots\dots\dots$

A . 0.0050

B . 0.050

C. 0.500

D . 50

3. If  $3^x = 81$  , what is the value of  $2x + 5$  ?

A. 4

B. 5

C. 8

D. 13

4. what is the value of  $\frac{a^2 - b^2}{a - b} =$  , when  $a = 117$  and  $b = 118$

A. 1

B. 235

C. zero

D. 35

5. If  $\frac{3}{7} = \frac{x}{84}$  , what is the value of  $x$  ?

A. 9

B. 18

C. 27

D. 36

6. If Ahmed types at rate of 35 words per minutes , How many words can he type in 85 Minutes ?

A. 2975

B. 2100

C. 5100

D. 6000



7. Find the value of  $5 + \sqrt{\frac{4 \times 4 \times 4 \times 4}{4 + 4 + 4 + 4}} =$

A. 9

B. 4

C. 13

D. 21

8.  $\frac{8(11-9) - 5(11-9)}{3} =$

A. 9

B. 3

C. 6

D. 2

9.  $\frac{1}{2} \times \frac{1}{2} + \frac{1}{3} \times \frac{1}{2} + \frac{3}{4} + \frac{15}{18} =$

A. 1

B. 2

C. 3

D. 4

10. If  $x$  is an odd integer, which of the next numbers is always an odd integer ?

A.  $3x + 1$

B.  $4x + 5$

C.  $4x + 6$

D.  $7x + 1$

11. After 20 % discount, the price of a computer was 600 SR. what was the price of the computer before the discount ?

A. 750 SR

B. 714 SR

C. 720 SR

D. 725 SR

12. complete the pattern :-  $3\frac{1}{5}, 5\frac{1}{7}, 7\frac{1}{9}, \dots\dots\dots$

A.  $9\frac{1}{11}$

B.  $11\frac{1}{7}$

C.  $7\frac{1}{5}$

D.  $3\frac{1}{5}$

13. Find the value of  $\frac{|4| - |8|}{-|4|} = \dots\dots\dots$

A. 1

B. -1

C. 2

D. 4



14. The measure of two acute angles in a right angle are in ratio of 5 : 13 what the value of the larger angle ?

A. 5

B. 40

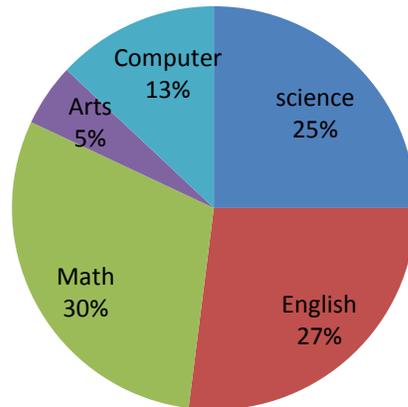
C. 65

D. 90

Questions 15 through 16 are based on the following data.

Refer to the figure.

**The number of students who take particular subject**



The pie chart above shows the number of students who take a particular subjects at school , where the total number of students is 1200 students .

15 . which subject is studied the most at school ?

A. Math

B. science

C. Arts

D. English

16 . How many students are taking science ?

A. 200

B. 250

C. 300

D. 350



17.  $0.0957310$  is a periodic number , the digit number 44 is .....

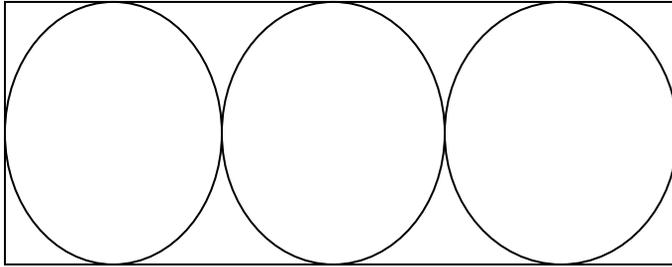
A. 9

B. 1

C. 3

D. 5

18 .



In the figure above the area of each circle is  $25\pi$  . Find the area of the rectangle ?

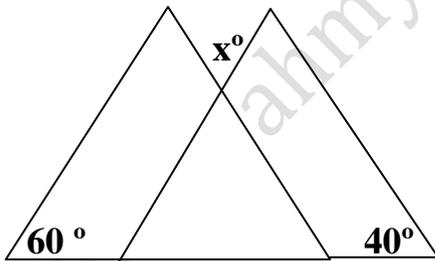
A. 150

B. 180

C. 300

D. 315

19 .



In the figure above Two identical triangles find the value of  $x$  ?

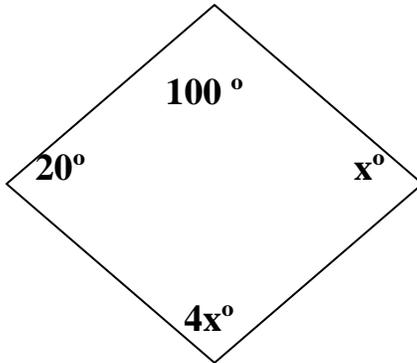
A.40

B. 60

C. 80

D. 100

20 .



In the figure above , find the value of  $x^\circ$  ?

A. 45

B. 48

C. 90

D. 120

Compare

21. If  $y = 3^x$

$9y$	$3^{2+x}$
------	-----------

22.

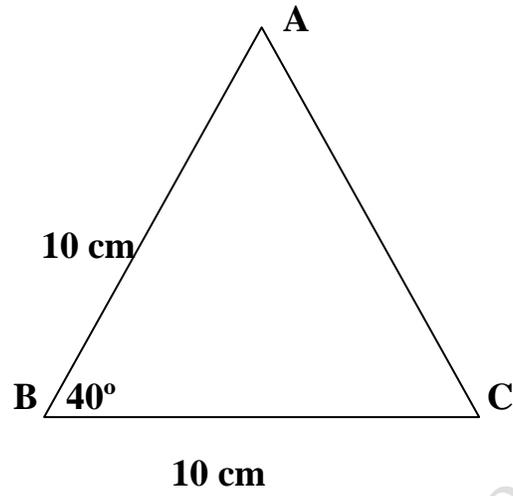
The average ( arithmetic mean ) of

22 ,38 ,x ,and y is 15

$X > 0$

$y$	0
-----	---

23.



The length of AC	10 cm
------------------	-------

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Q 5

1. The value of  $30294 \div 17 =$

- A. 1775                      B. 1782                      C. 1546                      D. 4327

2.  $1\frac{1}{4} - \frac{11}{2} + 3.75 =$

- A. 9                              B.  $-\frac{1}{2}$                       C.  $\frac{3}{4}$                               D. 10

3. If  $\frac{4}{5} > x > \frac{3}{5}$  , which of the next is a possible value of x ?

- A.  $\frac{1}{2}$                               B.  $\frac{1}{3}$                               C.  $\frac{2}{3}$                               D.  $\frac{1}{4}$

4. If  $40 : x = 10 : 100$  find the value of x ?

- A. 4000                              B. 30                              C. 400                              D. 3000

5. Ahmed bought an item with 84 SR that was 120 SR before the discount , find the percent of the discount ?

- A. 25%                              B.30%                              C. 70%                              D. 35 %

6. If  $\frac{x}{1} = \frac{5}{1} \frac{5}{5}$  , find the value of x ?

- A. 6.75                              B. 6.25                              C. 6.15                              D. 6.45

7. Mohamed bought a box of eggs and he found that  $\frac{3}{8}$  of it was broken , how many eggs still unbroken if the total number of eggs was 24 ?

- A. 15 eggs                              B. 18 eggs                              C. 12 eggs                              D. 9 eggs



8.  $(-2)^{-3} =$

A.  $\frac{1}{6}$

B.  $-\frac{1}{8}$

C.  $\frac{1}{8}$

D.  $\frac{1}{6}$

9. If  $\frac{x \cdot x \cdot x}{x + x + x} = 3$ , find the value of x ?

A.  $\pm 3$

B.  $\pm 9$

C.  $\pm \frac{1}{3}$

D.  $\pm \frac{1}{9}$

10. Find the value of  $\sqrt{\sqrt{\sqrt{2^{48}}}}$  :

A. 2

B.  $2^6$

C.  $2^8$

D.  $2^{12}$

11. Complete the pattern : 0, 1, 3, 7, 15, 31, ....., .....

A. 63, 64

B. 63, 127

C. 63, 128

D. 32, 64

12. Find the value of  $\frac{3^{11} + 3^9}{3^9}$

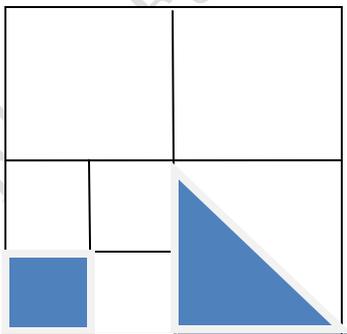
A. 9

B. 10

C.  $3^{11}$

D.  $3^{11} + 1$

13.



In the figure above, find the ratio of the shaded region to the shape ?

A.  $\frac{3}{13}$

B.  $\frac{3}{16}$

C.  $\frac{3}{4}$

D.  $\frac{3}{12}$



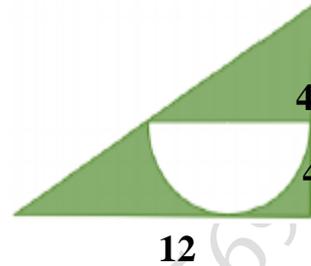
14. In the figure below, find the shaded region ?

A.  $12(8 - 2\pi)$

B.  $8(6 - \pi)$

C.  $6(8 - \pi)$

D.  $6(8 - 2\pi)$



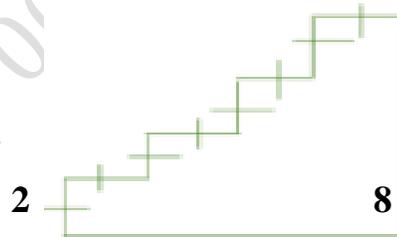
15. Find the perimeter of the next shape ?

A. 32

B. 38

C. 28

D. 22



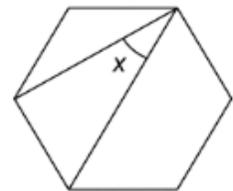
16. . In the figure below, a regular hexagon above, what is the value of  $x$  ?

A.  $15^\circ$

B.  $20^\circ$

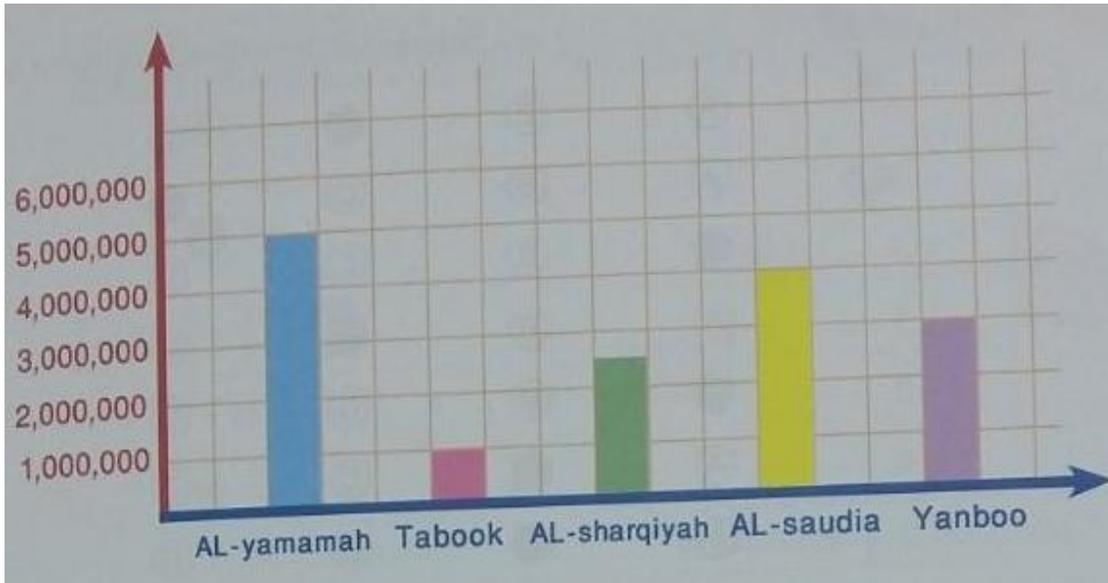
C.  $30^\circ$

D.  $60^\circ$



Questions 17 through 18 are based on the following data.

Refer to the figure. shows the cement companies production in KSA



17. what is the difference in ton between the largest and the smallest company in production ?

- A. 5000,000                      B. 4000,000                      C.3000,000                      D. less than 1000,000

18.The production of Tabook and Al- saudia companies are equal to :

- A. Yanboo                      B. Al-sharqiyah                      C. Al- yamamah                      D. unknown

19. The sum of three odd consecutive numbers is 369 . what is the mean of the first two numbers ?

- A. 120                      B. 121                      C. 122                      D. 124



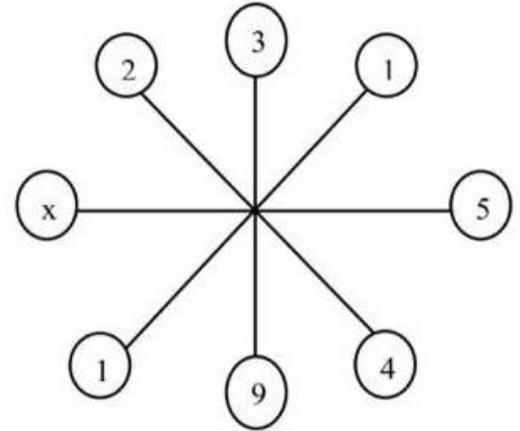
20 . In the figure below , find the value of  $x$  ?

A. 50

B. 10

C. 25

D. 250

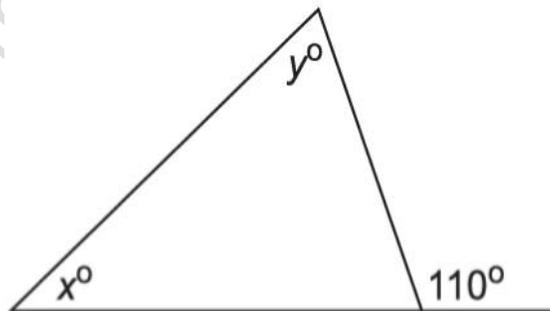


21.

Compare between

$0.25$	$\frac{19}{64}$
--------	-----------------

22 . In the figure below , Compare between



$x + y$	$110^\circ$
---------	-------------



23. Ali 's age is the half that of the Saad 's and Saad 's age is 3 times that of the Fahad

Compare between

Ali 's age	Fahad 's age
------------	--------------

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Q 6

1. Find the value of  $10000 - 1000 - 100 - 10 - 1 =$

- A. 8889                      B. 889                      C. 8998                      D. 998

2. Find the value of  $0.499 \times 0.78 \times 16 =$

- A. 5                              B. 7                              C. 3                              D. 6

3. Find the value of  $1 + \frac{1}{2} \div \frac{1}{4} =$

- A. 3                              B. 2                              C. 4                              D. 1

4. Find the value of  $5 + \sqrt{35 + (1.0003)^3} =$

- A. 11                              B. 2                              C. 6                              D. 30

5. If 400 % of  $x = 200$  , find  $x$  ?

- A. 60                              B. 50                              C. 70                              D. 80

6. If  $3 : x = 6 : 18$  , find  $3x + 5$  ?

- A. 18                              B. 27                              C. 32                              D. 36

7. A women bought 3 bottles of perfume which were priced equally . she paid half the original price for the second bottle and one quarter of the price for the third bottle , if she paid in total 700 SR , what was the original price of each bottle ?

- A. 200                              B. 300                              C. 400                              D. 500



8. Find the value of  $\frac{\sqrt{80}}{\sqrt{5}} - \frac{4}{\sqrt{5}} =$

A.  $\frac{20-4\sqrt{5}}{5}$

B. Zero

C.  $\frac{4\sqrt{5}}{5}$

D.  $\sqrt{5}$

9. If  $\frac{x}{y} = 80$ , find  $\frac{y}{2x}$  ?

A. 40

B. 20

C. 70

D. 50

10.  $10^{-6} \times 10^5 =$

A.  $10^1$

B.  $10^{-1}$

C.  $10^2$

D.  $10^3$

11. Complete the pattern 5, 1, -3, .....

A. -6

B. -7

C. 4

D. 2

12. The sum of 3 numbers is 168 what's their mean ?

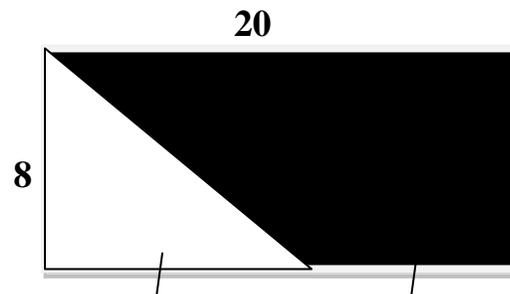
A. 56

B. 55

C. 168

D. 65

13. In the figure below, find the area of the shaded region ?



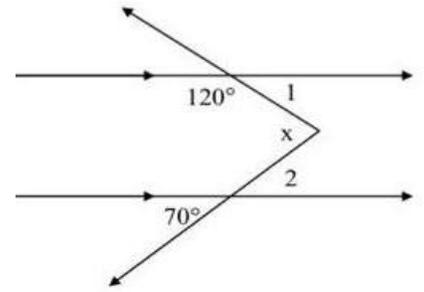
A. 179

B. 135

C. 120

D. 139

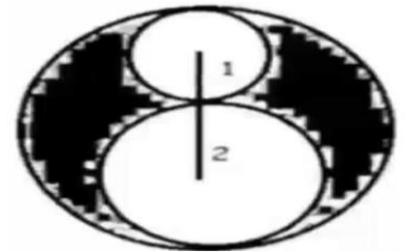
14. In the figure below , find  $x$  ?



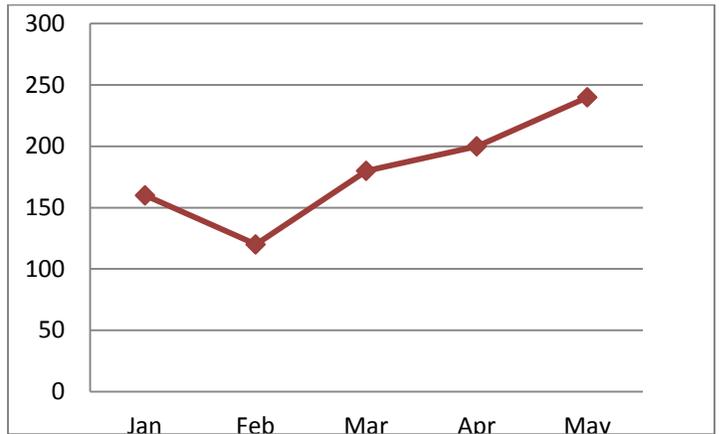
- A. 100                      B. 120                      C. 130                      D. 190

15. In the figure below , what is the ratio of the smaller circle to the shaded area ?

- A. 1 : 4                      B. 2 : 4  
C. 4 : 1                      D. 4 : 2



The next graph shows what Fahad has Saved in the last 5 months . use the graph to answer the next question :



16. The least saved money by fahad was in .....

- A. May                      B. Feb                      C. March                      D. Apr

17. The difference between the greatest and least amount saved is ..... SR

- A. 40                      B. 60                      C. 80                      D. 120

18. The total average of the saved money in 5 months was ..... SR

- A. 240                                      B. 220                                      C. 200                                      D. 180

19. The average of 6 odd consecutive integers is 8 . what is the average of the last two integers ?

- A. 11                                      B. 12                                      C. 13                                      D.14  
B.

20. Complete the pattern 1 , 3 , 9 ,27 , 81 , .....

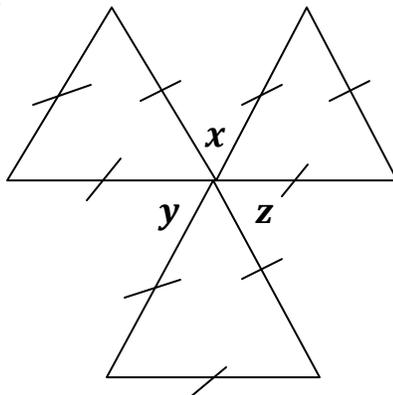
- A. 243                                      B. 345                                      C. 234                                      D. 199

21. If  $20^x - 15^x = 5$

Compare between

$x$	One
-----	-----

22 . In the figure below , Compare between



$x^\circ + y^\circ + z^\circ$	$180^\circ$
-------------------------------	-------------

23. three associates agreed to split the 3000 SR profit o an investment in the ratio of  
2 : 5 : 8

Compare between

<b>The difference between the largest and the smallest share</b>	<b>1200 SR</b>
--	----------------

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Q 7

1. Find the value of  $\frac{0.5}{2} - \frac{1}{4} = \dots\dots$

- A. Zero                      B. one                      C.  $\frac{1}{2}$                       D.  $\frac{1}{4}$

2. Find the value of  $(14 \times 2) + (14 \times 5) + (14 \times 3) = \dots\dots\dots$

- A. 130                      B. 140                      C. 120                      D. 110

3. Find the value of  $6.14 \times 2.13 = \dots\dots\dots$

- A. 13.0782                      B. 19.4783                      C. 12.567                      D. 12.653

4. Which of the next is not a prime number ?

- A. 97                      B. 91                      C. 101                      D. 13

5. If 35 % of  $x = 25 \%$  of 280 find the value of  $x$  ?

- A. 200                      B. 72                      C. 159                      D. 120

6. If  $30 : x = 0.1$  find  $x$  ?

- A. 300                      B. 350                      C. 250                      D. 400

7. The remainder of 29 divided by 3 is .....

- A. 3                      B. one                      C. 2                      D. 7

8. If  $x + y = 6$ ,  $\frac{1}{x} + \frac{1}{y} = \frac{1}{4}$  find the value of  $x \cdot y$  ?

- A. 16                      B. 20                      C. 24                      D. 30

9. If  $x^2 > 9$ ,  $3x < 14$  find the value  $x$  ?

- A. 2                      B. 3                      C. 4                      D. 5



10. Find the value of  $\frac{9^6 - 9^4}{9^3 - 9^2} = \dots\dots\dots$

- A. 810                      B. 820                      C. 800                      D. 678

11. find the value of  $\frac{2^3\sqrt{3} - 2^5\sqrt{3}}{5\sqrt{3}} = \dots\dots\dots$

- A. 8                      B. 16                      C. 4                      D. 32

12. If  $3x - y = 15$  ,  $x = 6$  find the value of  $y$ ?

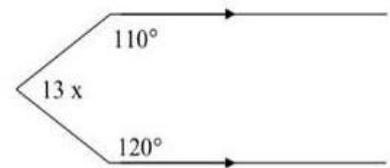
- A. -3                      B. 3                      C. 6                      D. -6

13. Find the value of  ${}^{20}\sqrt{3^8} = \dots\dots\dots$

- A.  $3^{0.4}$                       B.  $3^{0.10}$                       C.  $3^{0.25}$                       D. 9

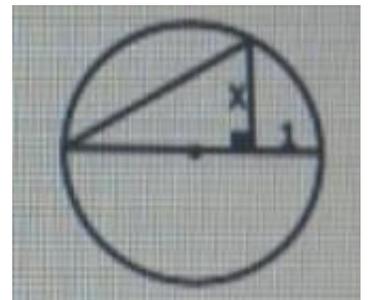
14. In the figure below , find the value of  $(13x)$  ?

- A.  $120^\circ$                       B.  $130^\circ$   
C.  $150^\circ$                       D.  $180^\circ$



15. In the figure below , if the diameter of the circle is 10 cm find the value of  $x$  ?

- A. 3                      B. 4  
C. 2                      D. 2.5



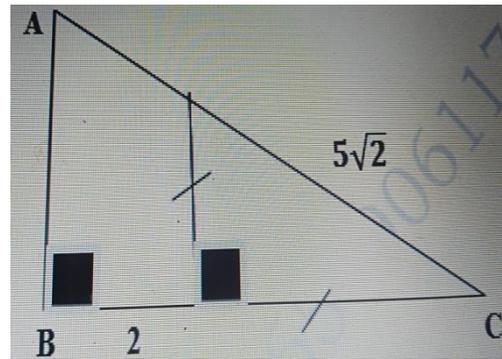
16. In the figure below , find  $\overline{AB}$  ?

A. 5

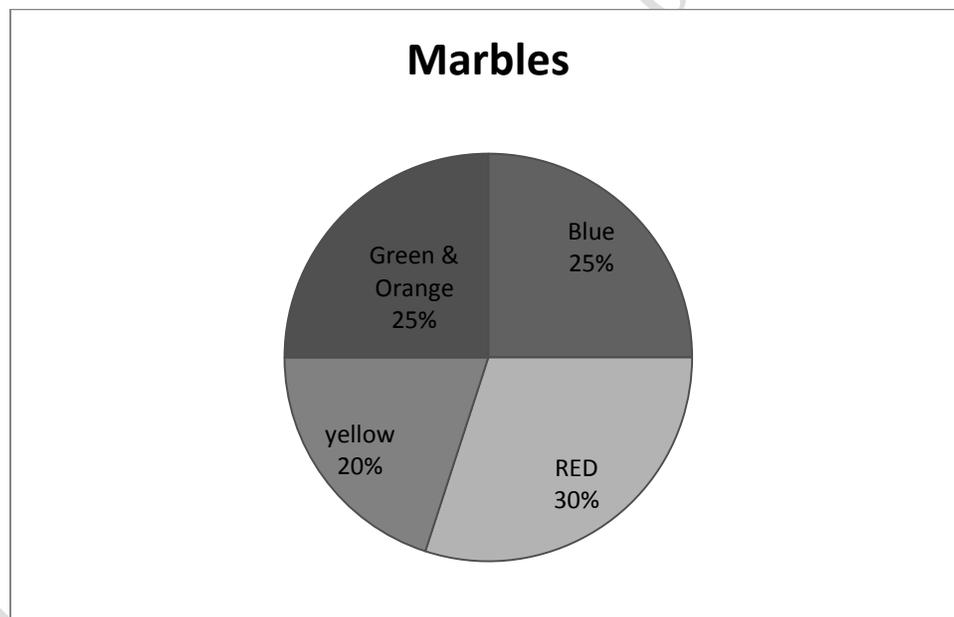
B. 7

C. 8

D. 6



17. In the figure below , if the jar contains 1200 marbles and there are twice as many Orange marbles as there are Green , How many Green marbles are there ?



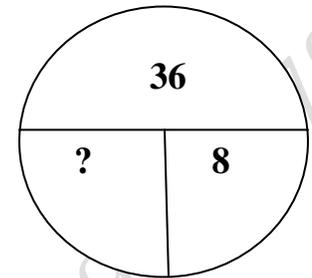
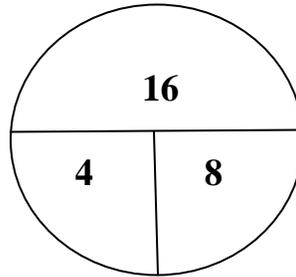
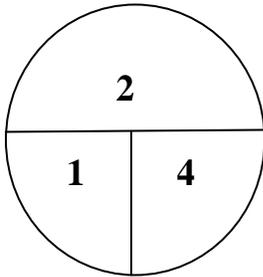
A. 100

B. 200

C. 300

D. 400

18. Complete the pattern



- A. 3                                      B. 9                                      C. 18                                      D. 36

19. If a test duration is 2 hours 40 minutes and it ended at 1 : 35 , what time the test starts ?

- A. 10 : 55                                      B. 11 : 05                                      C. 11 : 10                                      D. 11: 15

20. Two cars leave the same town at the same time , the first one moves at the speed 120 Km/ h and the second at the speed 100 Km / h . what is the time difference between the two cars after 480 Km ?

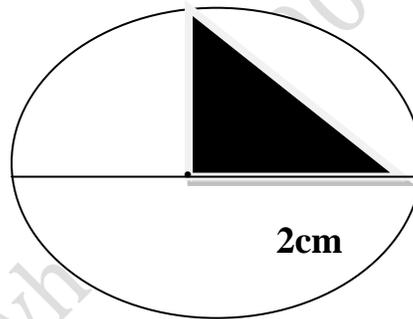
- A. 40 min                                      B. 42 min                                      C. 44 min                                      D. 48 min

21.

Compare between

$\frac{\frac{1}{4} + \frac{1}{8}}{\frac{1}{8}}$	$9 \overline{)5}$
---	-------------------

22 . In the figure below , Compare between



$\pi$	The shaded region
-------	-------------------

23. If  $x^2 - 2x + 1 = \text{zero}$

Compare between

$x$	One
-----	-----



Q 8

1.  $\frac{24.5}{7.5} - \frac{1}{15} - \frac{48}{15} =$

A. Zero

B. 2

C. 3

D. 5

2. Find the sum of:  $11 + 1.111 + 1.1 + 0.01$

A. 13.221

B. 6

C. 13221

D. 1322.1

3. Find the value of :  $\left(\frac{1}{32} \div \frac{1}{4}\right) \times \left(\frac{1}{16} \div \frac{1}{8}\right) =$

A.  $\frac{1}{16}$

B.  $\frac{1}{8}$

C.  $\frac{16}{1}$

D.  $\frac{4}{16}$

4. Find the value of  $\frac{1}{4} \times \frac{1}{0.25} \times \frac{1}{0.5} \times \frac{1}{8} = \dots\dots\dots$

A. .4

B. 2

C.  $\frac{1}{2}$

D.  $\frac{1}{4}$

5.  $\sqrt{124609} =$

A. 314

B. 353

C. 562

D. 3421

6. A number multiplied by 15 gives the number 810 , what is that number ?

A. 50

B. 54

C. 234

D. 199

7. 0.03% of 0.03% of 1000 =

A. 0.000009

B. 0.00009

C. 0.0009

D. 0.009



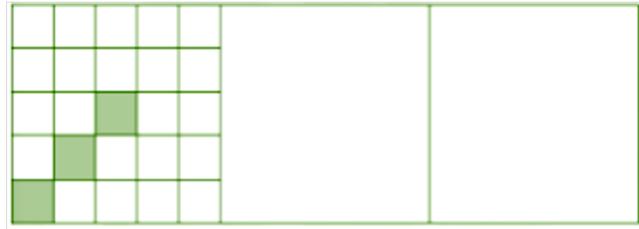
8. The ratio of the shaded region to the shape:

A. 1:25

B. 1:75

C. 3:100

D. 3:50



9.  $15x^2 = 7$ , find the value of  $15(7x^2)$

A. 49

B. 63

C. 42

D. 35

10. If  $\frac{5}{9} + \frac{9}{5} = \frac{5}{1+x} + \frac{1+x}{5}$ , then what's the value of x?

A. 8

B. 6

C. 5

D. 7

11.  $3^{10} + 3^{10} + 3^{10} =$

A.  $3^{30}$

B.  $9^{10}$

C.  $3^{11}$

D.  $9^{30}$

12.  $\frac{\sqrt{9}}{\sqrt{3}} + \frac{\sqrt{6}}{\sqrt{2}} =$

A.  $2\sqrt{3}$

B. 2

C. 9

D. 3

13. complete the pattern  $1, \frac{1}{3}, \frac{1}{9}, \frac{1}{27}, \dots$

A.  $\frac{1}{81}$

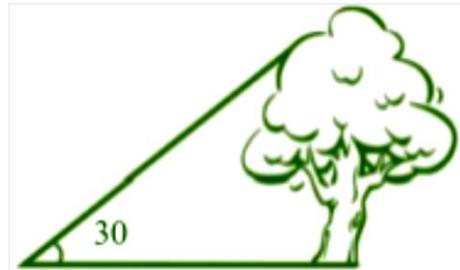
B.  $\frac{1}{243}$

C.  $\frac{1}{121}$

D.  $\frac{1}{169}$



14. If the length of the hypotenuse = 100 , find the length of the tree :



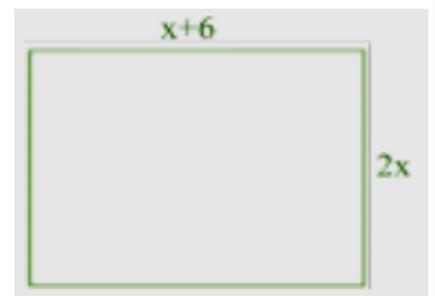
A. 50

B. 100

C. 40

D. 60

15. Find the area of the square:



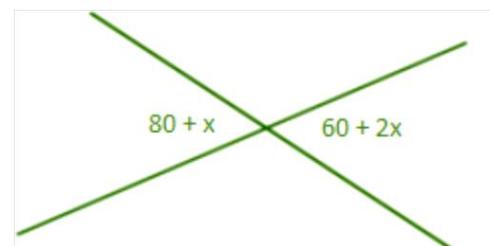
A. 36

B. 96

C. 16

D. 144

16. find the x value :



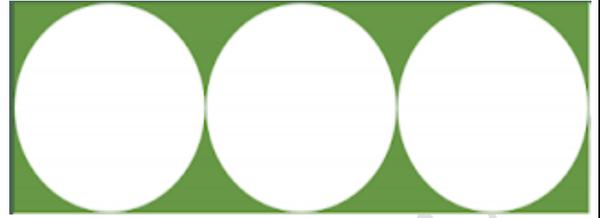
A. 36

B. 30

C. 20

D. 40

17. Find the area of the rectangle, given that the radius of the circle = 4



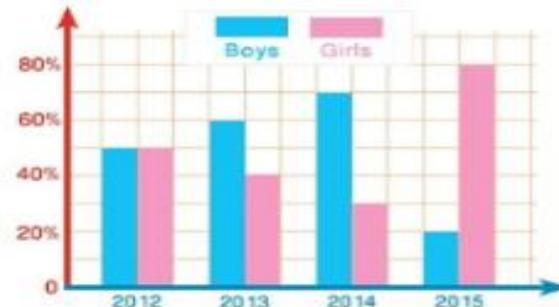
- A. 191      B. 190      C. 193      D. 192

18. The average of four consecutive even numbers is 27. find the largest of these numbers?

- A. 24      B. 26      C. 28      D. 30

Years	2012	2013	2014	2015
Total number	500	1000	2000	4000

The opposite double - bar charts represent the percentage of joining boys and girls for a national organization of youth, the table represents the total number of joined boys and girls in the given years.



19. What is the number of girls that joined the youth organization in the year 2014 ?

- A. 400      B. 600      C. 1000      D. 1200

20. A father has 3 sons, one of them visits him every 3 days, the second every 5 days and the third every 6 days. How many times are they going to meet after 60 days ?

- A. 3      B. 2      C. 4      D. 5

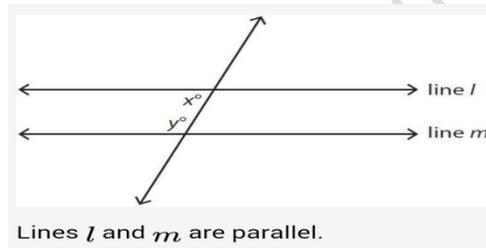


21. If  $X = 25\%$  of 2400 and  $Y = 50\%$  of 1200 then

Compare between

$X$	$Y$
-----	-----

22. In the figure below, Compare between



$x + 2y$	$180^\circ$
----------	-------------

23.

Compare between

$5^{20} + 5^{20} + 5^{20}$	$5^{20} \times 4$
----------------------------	-------------------



## Q9

1. The value of  $700 + 850 + 990 + 650 + 300 + 150 + 10 + 350 + 310 + 690 =$

A. 6200

B. 5500

C. 5000

D. 4500

2.  $100 \times 100 - 98 \times 98 =$

A. 198

B. 396

C. 199

D. 200

3. Find the product of  $\frac{50}{0.2} \times \frac{4}{0.2} \times \frac{1}{0.2} =$

A. 25000

B. 20000

C. 15000

D. 10000

4.  $\sqrt{124609} =$

A. 314

B. 353

C. 562

D. 3421

5.  $0.03\%$  of  $0.03\%$  of  $1000 =$

A. 0.000009

B. 0.00009

C. 0.0009

D. 0.009

6. If  $40 : y$  is the same as  $10 : 100$  find the value of  $y$

A. 4000

B. 30

C. 400

D. 300

7.  $2x + 4y = \frac{1}{6}$ , then what's the value of  $4x + 8y$

A.  $\frac{1}{6}$

B.  $\frac{1}{3}$

C. 6

D. 3

8.  $15x^2 = 7$ , find the value of  $15(7x^2)$

A. 49

B. 63

C. 42

D. 35

9. if  $x = -2$  and  $3x - y = 3$ , then  $y = ?$

A. -9

B. -8

C. -4

D. -2

10.  $4 \times 2^4 = x^6$ , what's the value of  $x$

A. 2

B. 3

C. 5

D. 6

11. Simplify the equation below :  $\sqrt{\frac{1}{2}} \times \left(\frac{1}{2}\right)^{\frac{1}{2}}$

A. 2

B. 1

C.  $\frac{1}{2}$

D.  $\frac{1}{4}$

12. If  $5^x = 6$ ,  $6^y = 5$  find  $x \cdot y$  ?

A. 2

B. 1

C. 3

D. 4

13.  $\sqrt[3]{x} = \sqrt[5]{32}$ , what is the value of  $x$  ?

A. 2

B. 4

C. 6

D. 8

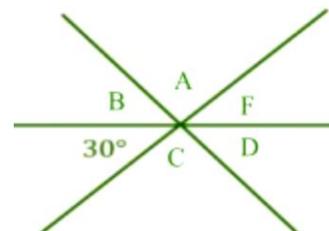
14. In the figure below, find  $A+B+C+D =$

A. 330

B. 370

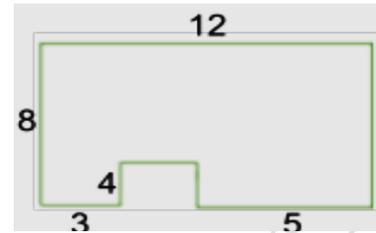
C. 300

D. 240



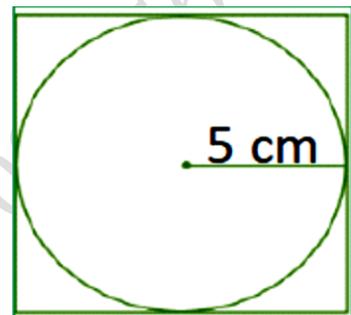
15. what is the area of the shape below?

- A. 60                      B. 70  
C. 80                      D. 90



16. In the figure below , Find the perimeter of the square :

- A. 40                      B. 20  
C. 100                    D. 60



	Reading	Swimming	Walking	The sum
women	10	12	8	30
Men	5	7	8	20

17. from the table above , find the percentage of men who prefer reading and Swimming ?

- A. 60 %                      B. 70 %                      C. 80 %                      D. 50 %

18. complete the pattern 1 , 1 , 2 , 3 , 5 , 8 , .....

- A. 13                      B. 15                      C. 17                      D. 21

19. Mohamed s average ( arithmetic mean ) on 4 tests is 80 . What does he need on his fifth to raise his average to 84 ?

- A. 82                      B. 84                      C. 92                      D. 100

20. A student ranked 13 th from the right and 8 th from the left .How many Students are there in total ?

A. 19

B. 20

C.21

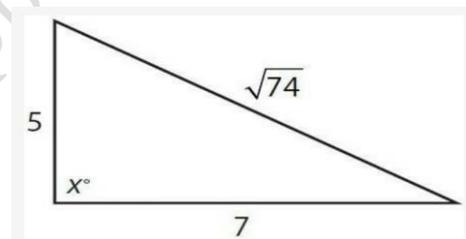
D. 22

21.

Compare between

$-8 \left( \frac{-99}{-7} \right)$	$-7 \left( \frac{16}{-11} \right)$
------------------------------------	------------------------------------

22 . In the figure below ,



Compare between

$x$	$90^\circ$
-----	------------

23.

Compare between

The product of the odd integers between $-8$ and $8$	The product of the even integers between $-9$ and $9$
--	---



Q 10

1. Find the value of  $87955936 \div 284 = \dots\dots\dots$

- A. 309704                      B. 304523                      C. 444401                      D. 40500

2. Find the value of :  $\left(\frac{4}{5}\right) \div \left(\frac{2}{5} \times \frac{1}{2} \times \frac{2}{5}\right)$

- A.  $\frac{2}{5}$                                   B. 8                                  C. 10                                  D. 20

3. The biggest value multiplied by 7 and the outcome is less than 115 is

- A. 17                                  B. 15                                  C. 16                                  D. 14

4. Find the value of  $\frac{7}{100} + \frac{9}{1000} = \dots$

- A. 0.0079                      B. 0.079                      C. 0.00079                      D. 0.79

5. Find the value of  $\frac{\frac{1}{4}}{\frac{1}{7}} \div \left(\frac{3}{4} \times \frac{4}{3}\right) = \dots\dots\dots$

- A.  $\frac{7}{4}$                                   B. one                                  C.  $\frac{4}{7}$                                   D. 2

6. If  $x + y = 7$ , then what will be the largest possible value of  $x.y$ ?

- A. 6                                  B. 10                                  C. 12                                  D. 14

7. If  $\left(\frac{2}{3}\right)^{x+5} = \left(\frac{8}{27}\right)$ , find the value of  $x$ ?

- A. one                                  B. -2                                  C. 3                                  D. 4



8. If  $7^x = 5$  then  $49^x = \dots\dots$

- A. 49                      B. 7                      C. 25                      D. 5

9. If  $\sqrt{x} = \sqrt{2} + \sqrt{2} + \sqrt{2} + \sqrt{2} + \sqrt{2}$ , find the value of  $x$  ?

- A. 50                      B. 75                      C. 25                      D. 60

10. Find the value of  $\sqrt{\sqrt{\sqrt{2^{48}}}} = \dots\dots\dots$

- A. 2                      B.  $2^6$                       C.  $2^8$                       D.  $2^{12}$

11. If  $\frac{2x}{y} = 5$ , find the value of  $\frac{2x+y}{\frac{1}{2}y} = \dots\dots\dots$

- A. 2.5                      B. 10                      C. 12                      D. 5.2

12. The difference of two numbers is 11 and their sum is 7. what is the value of greater number ?

- A. 9                      B. -2                      C. -9                      D. -6

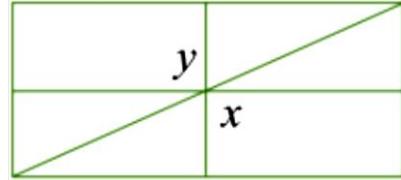
13. Jawaher went with her friends from School to a trip and it consists of 18 students and Two teachers. If each ticket for student cost 5 SR and each teacher's ticket costs 8 SR, How much the total cost of the tickets ?

- A. 106                      B. 107                      C. 100                      D. 85



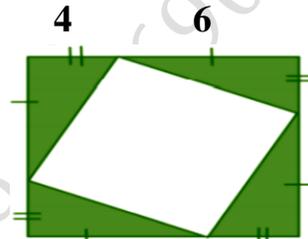
14 . Find the value of  $x + y$  :

- A) 180                      B) 90  
C) 120                      D) 200



15 . if each side of the square is 10 cm , find the shaded area

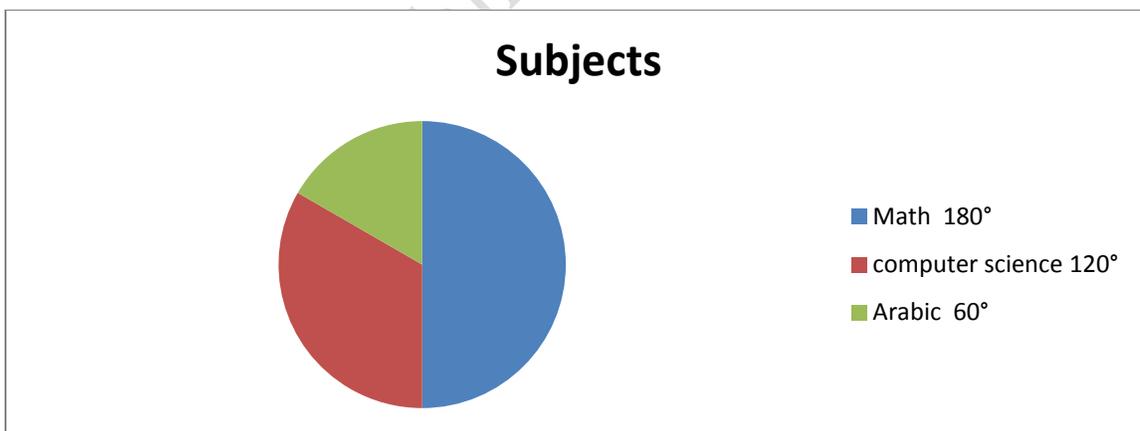
- A) 48                      B) 56  
C) 16                      D) 64



16 . The area of a circle is  $154 \text{ cm}^2$  . what is its circumference ?

- A. 22                      B. 44                      C. 66                      D . 88

17. In the next diagram , find the percent of computer science 's sector ?



- A. 33%                      B. 66%                      C. 55%                      D. 44%



18. Complete the next pattern

32

34

38

4

6

$y$

A. 10

B. 9

C. 8

D. 7

19. what is the average ( arithmetic mean ) of  $4x + 5$  ,  $7x - 6$  , and  $- 8x + 2$  ?

A.  $x + 1$

B.  $\frac{x+1}{3}$

C.  $3x + 1$

D.  $\frac{3x+1}{3}$

20. A man is 24 years older than his son . In two years , his age will be twice the age of his son . the present age of the son is

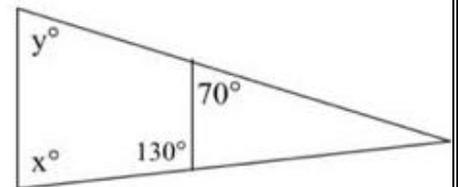
A . 14 years

B. 18 years

C. 20 years

D. 22 years

21. In the figure below,



Compare between

$(x^\circ + y^\circ)$	$(119^\circ)$
-----------------------	---------------

22.

Compare between

$\frac{2}{3}$	$\frac{1}{\frac{1}{2}+1}$
---------------	---------------------------

23.

Compare between

$3^4 - 3^3$	$3^3$
-------------	-------

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