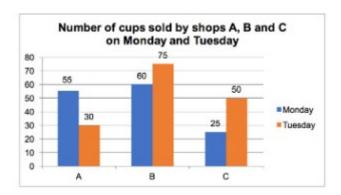
The chart below shows the number of cups sold by three different shops on A ,B,C on Monday , Tuesday , Wednesday



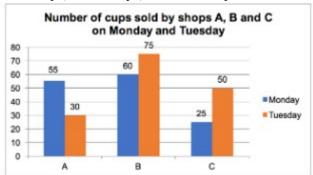
what is the average number of cups sold by shop A and shop C on Tuesday?

#### sol:

(30+50)/2=40

(a) 20 (b) 30 (c) 60 (d) 40

The chart below shows the number of cups sold by three different shops on A, B, C on Monday, Tuesday, Wednesday



Number of cups sold by shop B on Tuesday is what percentage more than the number of cups sold by same shop on Monday?

#### sol:

(75-60)/60\*100

15/60\*100

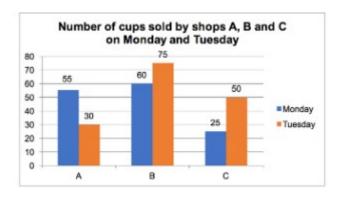
**25**%

(a) 35%

(c) 25%

(b) 50% (d)60%

The chart below shows the number of cups sold by three different shops on A ,B,C on Monday , Tuesday , Wednesday



How many cups sold on Monday by all the three shops together?

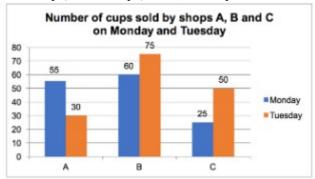
#### sol:

## 55+60+25

140

(a) 120 (b) 150 (c) 130 (d) 140

The chart below shows the number of cups sold by three different shops on A ,B,C on Monday , Tuesday , Wednesday

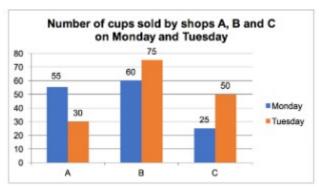


If number of cups sold by shop A on Wednesday was 20% more than that sold on Monday, how many cups were sold by shop A on Wednesday? sol:

A on Wednesday =20% more than on Monday 55+11=66

(a) 55 (b) 44 (d)33

The chart below shows the number of cups sold by three different shops on A, B, C on Monday, Tuesday, Wednesday



what is the difference between number of cups sold by shop A and shop C on Tuesday together and B and C on Monday together?

sol:

80-85

5

(a) 4 (c) 2

**(b) 5** (d)6

What is the angle between minute hand and hour hand at 2.25?

sol:

30°+30°+35min

300+300+17.50

77.5°

(a)  $66.5^{\circ}$ 

(c)  $86.5^{\circ}$ 

(b) 76.5°

(d) 77.5°

What is the angle between minute hand and hour hand at 11.45?

sol:

30°+30°+45min

82.5°

(a)  $66.5^{\circ}$ 

 $(c) 82.5^{\circ}$ 

(b) 51.5°

(d)  $88.5^{\circ}$ 

At what time between 90 clock and 10 o clock, will the hands of a clock be together?

sol:

55=60

45 = x

x=(45\*60)/55

49 1/11 past 9

(a) 49 1/11 past 9

(c) 22 1/11 past 10

(b) 30 1/11 past 9

(d) 10 1/11 past 12

At what time between 3 o clock and 4 o clock the hands of the clock be in opposite direction

sol:

**55=60** 

45 = x

```
x=(60*450)/55
49 1/11part 3
(a) 20 1/11part 4
                                                    (c) 10 1/11part 5
(b) 49 1/11part 3
                                                    (d) 12 1/11part 6
How many degree does a 5 minute space have in it?
(a) 60^{\circ}
                                                    (c) 30^{\circ}
(b) 50^{\circ}
                                                    (d) 40^{\circ}
What was the day of week on 29th April 1875?
1600+200+74+(month upto march+ april 28 days)
0+3+36+56+6
0+3+1+0+6
10
3rd day=Wednesday
(a) Wednesday
                                                    (c) Thursday
(b) Tuesday
                                                    (d)Friday
If 20 th may 1990 is Friday then what was the day on 10 th june 1995?
20 th may 1990 – Friday +1+1+2+1+1→Friday+6=20 th may 1995=Thursday
10 th june 1995 = 20 th may +4 + 3
=Thursday + 7 →Thursday
                                                    (c) Thursday
(a) Wednesday
                                                    (d)Friday
(b) Tuesday
Today is Sunday, find the day after 79 days?
sol:
odd days = 2 days
so Sunday+2 days =Tuesday
(a) Sunday
                                                    (c) Tuesday
(b) Thursday
                                                    (d)Friday
11th January 1997 was a Sunday. W hat day of the week lies on 7th jan 2000?
sol:
11 th may 1997 - sunday +1+1+1→Wednesday-4=7 th jan 2000=Saturday
                                                    (c) Wednesday
(a) Saturday
                                                    (d)Sunday
(b) Monday
Prem's birthday is on 23<sup>rd</sup> oct 2003, Kathir born 5 days ahead of Prem, on which day does Kathir
born?
sol:
23^{\text{rd}} \text{ oct } 2003 = 2000 + 2 + (2) \rightarrow 4 = 4^{\text{th}} \text{ day} = \text{Thursday}
```

# 5 days ahead of Thursday is Tuesday

(a) Wednesday

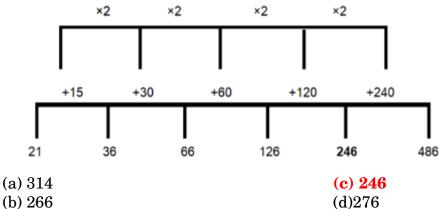
(c) Thursday (d)Friday

(b) Tuesday

Find the missing number 21,36,66,126,---,486

Ans: 246 Sol:

The given series follows the following pattern:

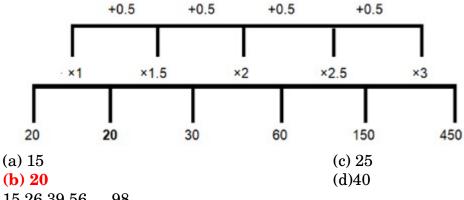


20,---,30,60,150,450

Ans: **20** 

Sol:

The given series follows the following pattern:



15,26,39,56,---,98

Ans: 75

$$15 + 11 = 26$$

$$26 + 13 = 39$$

$$39 + 17 = 56$$

$$56 + 19 = 75$$

$$75 + 23 = 98$$

Ans:

**484** 

sol:

$$520 - 1^3 = 519$$

$$511 - 3^3 = 484$$

$$484 - 4^3 = 420$$

4,8,24,---,480,2880

Ans: 96

sol:

The given series follows the following pattern:

$$4 \times 2 = 8$$

$$8 \times 3 = 24$$

$$24 \times 4 = 96$$

120%=84000

(a) 45789 (c) 20500 (b) 45874 (d)84000

Tamil borrowed Rs 110000 from his friend Dharma at 8% simple interest per annum and due to his financial situation he gives back his amount after 10 years, so find the total amount settled by Tamil to Dharma at the end of 10 years

Ans: 198000 Sol: R=8% for 10 years 80% so 100%=110000

180%=198000

(a) 184792 (c) 198000 (b) 120145 (d)40000

A certain sum of money amounts to Rs 4235 in three years when invested at 18% pa simple interest, find the principle?

Ans: 2750

R=18%\*3=54% 154%=4235

100%=2750

(a) 3750 (b) 2750 (c) 2450 (d)3130

Dravid invested Rs 7000 for 2 years in a scheme offering simple interest of 16% pa and he invested same sum in another scheme offering 20% simple interest pa for 2 years, find the difference in interest

Ans: 560 Sol: 32%-40%=8% 100%=7000

8%=560

(a)460 (c) 90 (b) 560 (d)240

The simple interest received , after 6 years on investing Rs 24000 at the rate of 25% is invested in a bank that offers 30% pa , then find the total amount received from the bank after 5 years

Ans:90000

```
100%=24000
150%=36000(si at 25% for 6 yrs)
100%=36000
250%=90000(total amount at 30% for 5 years)
                                                    (c) 90000
(a) 80000
(b) 50000
                                                    (d)60000
Find the interest received for the sum of Rs 50000 invested at 10% pa for 2 years compounded annually
Ans:10500
Sol:
10+10+(10*10)/100=21%
100%=50000
21%=10500
(a) 14200
                                                    (c) 10500
(b) 15200
                                                    (d)11200
Jeevitha received a total amount of Rs 84500 from a bank which he invested 2 years ago at the rate of
30% pa compounded annually, find the principle amount he invested in the bank?
Ans;
50000
Sol:
30% for 2 yrs is 69%
169%=84500
100%=50000
                                                    (c) 40000
(a) 60000
                                                    (d)30000
(b) 50000
Nagalakshmi invested Rs 20000 each in two schemes, first scheme offers 20% pa simple interest for 2
years and second scheme offers 30% compound interest per annum for 2 years, find the difference in
interest she received.
Ans:5800
SI=40\%(2yrs)
CI=69%(2 yrs)
Diff = 29%
 100%=20000
29%=5800
                                                    (c) 6800
(a) 4800
(b) 3800
                                                    (d)5800
Rs P amounts to Rs 3927 in two years if it is invested in a scheme which offers compound interest
(compounded annually) of 5% pa and 10% pa in first year and second year respectively, Find the value of
Р
Ans:
3400
Sol:
interest for two years is 15.5%
115.5%=3927
```

## 100 %=3400

(a) 2500 (c) 6500

(b) 8100 (d)3400

10000 for 2 years at compound interest of 10%pa , compounded annually is equal to the total amount received on investing Rs Y for 1 year at simple interest of 25% pa .Find the value of Y

Ans: 9680

Sol:

CI:

10000=100%

12100=121%(21% CI for 2 years)

ST

12100=125%

9680=100%

(a) 9680 (b) 9784 (c) 8687 (d)10254

#### Statements:

All Rule are Method

A few Method are Trick

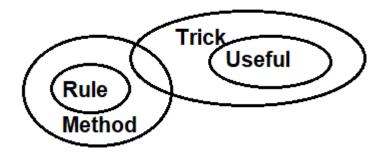
Only Trick are Useful

## Conclusions:

- I. No Useful are Rule
- II. Some Trick are Rule
- III. Some Method are not Useful

Ans:

(b) both i and iii follows Sol:



- (a) only i follows
- (b) both i and iii follows Statements:

All winter is season

A few season is rain

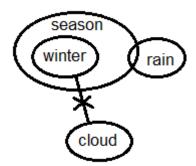
No cloud is winter

# Conclusions:

- I. No season is cloud
- II. Some winter is rain

Ans:

(d) Neither i nor ii follows



- (a) only i follows
- (b) both i and ii follows

## Statements:

Some five is one

All one is four

No three is one

# Conclusions:

- I. All five is four
- II. All three being four is a possibility

Ans:

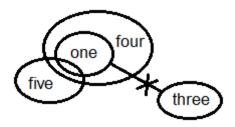
(c) only ii follows

- (c) only ii follows
- (d) Neither i nor ii follows

(c) only ii follows

(d) Neither i nor ii follows

# Sol:



- (a) only i follows (b) both i and ii follows Statements:
- All trial are viral.

Only few rule are trial.

Some kind are rule.

# Conclusions:

- I. All rule are viral.
- II. No kind is viral.
- III. Some viral are trial.

Ans:

(c) only iii follows

# Rule Kind Trial Viral

- (a) only i follows
- (b) both i and ii follows

- (c) only ii follows
- (d) Neither i nor ii follows

(c) only iii follows

(d) Neither i nor ii follows

# Statements:

Only A are B.

Some A and C.

All C are D.

# Conclusions:

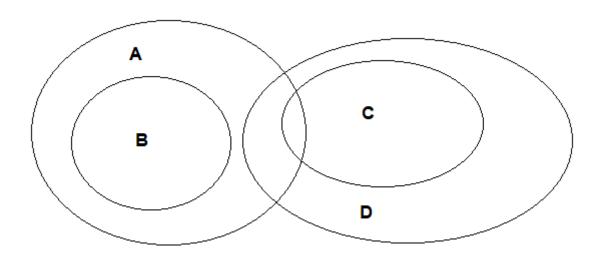
I. All A are D.

II. No B is C.

III. Some B are D.

Ans:

# only ii follows



- (a) only i follows
- (b) both i and ii follows

- (c) only ii follows
- (d) Neither i nor ii follows

## Statements:

Only a few students are teachers.

All teachers are principals.

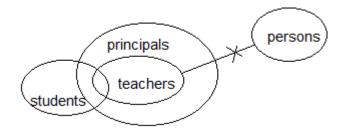
No persons are teachers.

## Conclusions:

- I. All persons being principals is a possibility.
- II. All students may be teachers.

Ans:

(a) only i follows Sol:



- (a) only i follows
- (b) both i and ii follows

- (c) only ii follows
- (d) Neither i nor ii follows

#### Statements:

Only buckets are bottles.

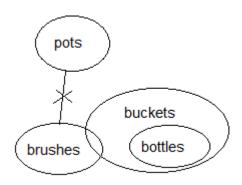
No pots are brushes.

Some brushes are buckets.

# Conclusions:

- I. No pots are buckets.
- II. A few brushes being bottles is a possibility.

Ans: (d) Neither i nor ii follows



(a) only i follows Line graph shows the number of winter wears ( sweaters and jackets) sold by A,B,C,D



values are: **SWEATERS** 

A =124 B=152 C =176 D=80

**JACKETS** 

A =146 B =72 C= 98 D=128

Find the difference between the winter wears sold by shop A and shop C

sol:

$$(124+146)-(176+98)=274-270$$

=4

(a) 3

(c) 2

**(b)** 4

(d)1

(c) only ii follows

(d) Neither i nor ii follows

Line graph shows the number of winter wears ( sweaters and jackets) sold by A,B,C,D



values are:

**SWEATERS** 

A =124 B=152 C =176 D=80

**JACKETS** 

A =146 B =72 C= 98 D=128

Find the average number of sweaters sold?

sol:

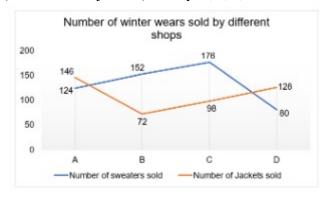
## (124+152+176+80)/4=532=133

(a) 123

(b) 143

(c) 113 (d)133

Line graph shows the number of winter wears ( sweaters and jackets) sold by A,B,C,D



values are:

**SWEATERS** 

A =124 B=152 C =176 D=80

**JACKETS** 

A =146 B =72 C= 98 D=128

The number of jackets sold by shop D is what percent of num of jackets sold by shop B and C combined?

# sol:

# 128/(72+98)\*100

## 128/170\*100

## **75.3**%

(a) 65.3%

(b) 81.7%

(c) 62.3% (d)75.3%

Line graph shows the number of winter wears ( sweaters and jackets)sold by A,B,C,D



# values are:

**SWEATERS** 

A =124 B=152 C =176 D=80

**JACKETS** 

A =146 B =72 C= 98 D=128

find the ratio of number of winter wears sold by shop  $\boldsymbol{B}$  to that of shop  $\boldsymbol{D}$ 

sol:

## 224:208; 14:13

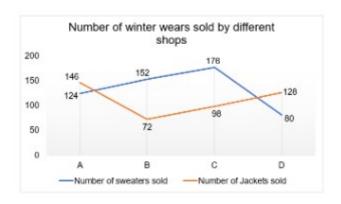
(a) 13:15

(c) 14:13

(b) 17:11

(d)11:12

Line graph shows the number of winter wears ( sweaters and jackets) sold by A,B,C,D



values are:

**SWEATERS** 

**JACKETS** 

The number of shawls sold by shop E is 3/8<sup>th</sup> of number of sweaters sold by shop B. Find the number of shawls sold by shop E.

sol:

What was the day of week on 5<sup>th</sup> october 1983?

sol:

 $1600 + 300 + 82 + (months\ up to\ sep + 5^{th}\ oct)$ 

0+1+40+62+5

3

# 3<sup>rd</sup> day=wednesday

- (a) Tuesday
- (b) Thursday

What was the day of week on 14th may 1675?

sol:

1600+74+(month upto april+ may 14 days)

0+36+56+8

0+1+0+1

# 2<sup>nd</sup> day=Tuesday (a) Wednesday (b) Tuesday If 20 th may 1990 is Friday then what was the day on 10 th june 1995? sol: 20 th may 1990 - Friday +1+1+2+1+1 Friday+6=20 th may 1995=Thursday 10 th june 1995 = 20 th may +4 + 3=Thursday + 7 →Thursday (a) Wednesday (b) Tuesday Today is Friday, find the day after 68 days? sol: odd days =5 days so Friday+5 days = Wednesday (a) Tuesday (b) Thursday 11th January 1997 was a Sunday. W hat day of the week lies on 7th jan 2000? sol: 11 th may 1997 - sunday +1+1+1→Wednesday-4=7 th jan 2000=Saturday (a) Saturday (b) Monday Naveen's birthday is on 23<sup>rd</sup> oct 2003, Shyam born 5 days ahead of Naveen, on which day does Shyam born? sol: $23^{rd}$ oct $2003 = 2000 + 2 + (2) \rightarrow 4 = 4^{th}$ day =Thursday 5 days ahead of Thursday is Tuesday (a) Wednesday (b) Tuesday Find the wrong number

```
256,64,32,4,1,0.25
Ans:
32
sol:
1024/4=256
256/4=64
64/4=16
(a) 32
(b) 4
Find the missing number
28,44,108,252,?,908
Ans:
508
sol:
28+4^2=44
44+8^2=108
108+12^2=252
252+16^2=508
(a) 508
(b) 504
Find the missing number
475,446,477,440,?
Ans:
481
sol:
475-29=446
446+31=477
477-37=440
440+41=481
(a) 480
(b) 483
```

(i) 2,8,20,38,62,X (ii) 5,15,30,50,75,Y What is X+Y?

y=105 x+y=197

Ans: 197 Sol: x=92

(a) 187(b) 207

# Statement:

Only a few Percussion is Drum.

All Drum is Instrument

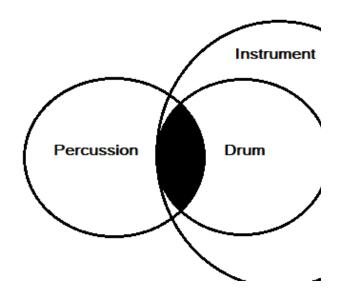
No Instrument is Guitar.

# Conclusion:

- I. No Drum is Guitar.
- II. Some Percussion is Instrument.

Ans:

(b) both i and ii follows



- (a) only i follows
- (b) both i and ii follows

## Statements:

Only king is queen

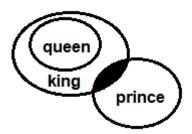
Some king is not prince

# Conclusions:

- I. Some queen can never be prince is a
- II. All king can be prince

Ans:

(d) Neither i nor ii follows Sol:



(a) only i follows(b) both i and ii followsStatements:

All Ball are Bat

No Bat are Racket

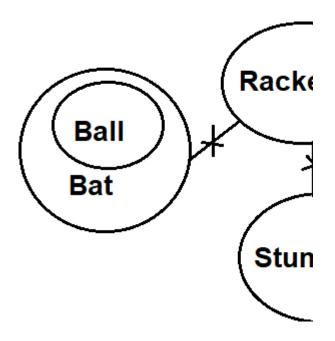
No Racket are Stumps

# Conclusions:

- I. At least Some Stumps are Bat
- II. Some Ball are Racket is a possibility

Ans:

(d) Neither i nor ii follows Sol:



(a) only i follows(b) both i and ii follows

Statements:

Some Cricket are Hockey

Some Hockey are Football

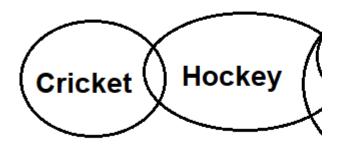
All Football are Tennis

# Conclusions:

I. At least Some Hockey are Cricket

II. At least Some Tennis are Hockey

(b) both i and ii follows Sol:



(a) only i follows

(b) both i and ii follows

## Statements:

Mostly hour is minute

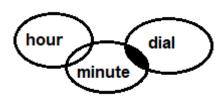
Only a few minute is dial

# Conclusions:

- I. Some hour is not dial
- II. Some minute is not dial

#### Ans:

(c) only ii follows



- (a) only i follows
- (b) both i and ii follows

#### Statements:

99% Verbs are Letters

No Letters are Word

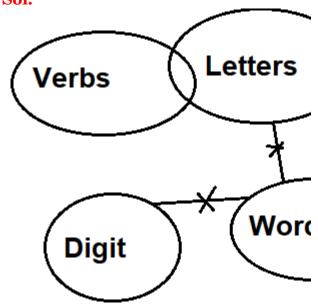
No Word are Digit

## Conclusions:

- I. Some Digit are Verbs is a possibility
- II. Some Verbs are not Word

Ans:

(b) both i and ii follows Sol:



(a) only i follows

## (b) both i and ii follows

Seven persons (Sina, Siya, Sinu, Sanu, Shyam, Siri, and Sita) sit around a circular table facing towards centre but not necessarily in same order. Sanu sits  $2^{\rm nd}$  to the left of Siya. Shyam sit  $2^{\rm nd}$  to the right of Siri. Shyam doesn't sit adjacent to Siya. Two persons sit between Sinu and Sina. Sina doesn't sit adjacent to

Sanu. Two persons sit between Siya and Sita Eight persons (Arti, Aarya, Babloo,

Chaman, Diya, Diksha, Era and Farhan) sit around a circular table facing towards centre but not necessarily in the same order. The person who has the same initials do not sit adjacent to each other.

Two persons sit between Aarya and Babloo. Two persons sit between Babloo and Chaman. Arti sits adjacent to Chaman. Diksha doesn't sit adjacent to Babloo. Farhan sits 2<sup>nd</sup> to the left of Diksha. Neither Era nor Diya sits 2<sup>nd</sup> to

the right of Chaman