



















## EBooh }hij Ê ~ "-%

### EBooh }hij Ê ~

n< 'o|x Ćo|X† h ū|upn† m† } o|ulj h x nđo|l f|ypc † <auc†

E B o o h } h i j Ê ~ h i i j o E | ~ ~ ' F } c ' n y U u ' .

f h Ć h \ u h | n b h < ' o | x Ć o | Z | u | j p ž o u y | p S s V c F } c ū | i o u y | p ' x W | d ' U < ū | n s } o | u | j p d | d y ž u | e đ u d S s V h ū | W c d } o | Z | u | j p U p d <

' y - E B o o h } h i j Ê ~ ž u | Ÿ o | Z | u | j p U p d < e j Ć p l u r < U h X a } u d ž u | Ÿ o | Z | u | j p U p d < e E B o o h | d ' n s } o | Z | u | j p U p d < o \ h x p l u X a } u d ž

## EBooh 'Uđ ~ "'01

ž r < o | x Ć o d ' x Ć o | } n s u c † U ū | U n - U p c †

I ž : x Ć o | Z - p Z h | V \$ | d h U p c † x ž h v † d F g | p x Ć o | u | j p d | o c †

Uđ - Z ž u p c . ž r < o | x Ć o | Z | u | j p ž p x Ć o \ | c h ' 3 E 0 ' 4 E 0 ' 5 E 0 x Ć o | } n s } u c †

ayc \ Z | p \ F } c ū | d x Ć o d h ' 3 E 0 ' 4 E 0 ' 5 E 0 x Ć o | U n - U p c † ay c \ Z u \ | | U ' U p c †

ž u | u g x Ć o | p Z ū | Z | V \$ x Ć o | d o | p U h V \$ c †

o c † & 0 ê o ' , x Ū r U F } c l p \ u i o u U ê o , i o u U r U F } c ū \ | | U ' o | d † O V | f | h ' ž r † | E 0 l p l p S s V h } r } y ū | x ' x Ć n l h } u c †

5478	+		=	6784
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ž u | e Uđ - j Ć o d U | Uđ ~ "-1.1d†.4

## EBooh 'Uđ ~ "'02

u | o j - W c d † < a } u c †

I ž : u | o j | d † W c d † e j Ć Ć | c h ' o | i o n s } o | u | j h x < a } u d | o c †

Uđ - Z ž u p c .

..... x W d r † - u | o j - W c d ž u | e x n \ h X † h l p \ u ū \ | | U ' U p d | d U | ? y † \ | c h X † h o | } h i j Ê ~ | - | | d f h Ć h \ u h | d † ' x W c d † † h l p \ ž ū \ | | U ' U p ū | Z | x p l u ' u ' < ū | y h f c †

ž u | e Uđ - j Ć o d U | Uđ ~ "-1.5

EBooh'Ufd~ "03

xÇo|Z|W€|U|p

I v: }fr ço|x Çod+r W€ F }c W€U S sV h W€|U |p|Z~} o|o'x|oj |o o| |pU pd| oç†

Ufd-Z#uupc.:

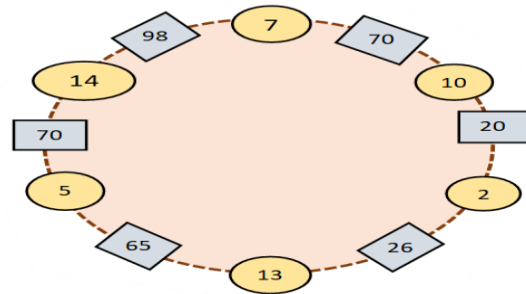
.....f'h xÇo|Z|W€|U|pU pd|h|}fr ço|x Çod+r n'x'o|x ÇoZDe|h n'eo S sV h' W€|U|pU p|uo|Z#n\|uc†

f'hçh'ioy|p' xÇod+r W€|U|pU p|b|x|o|f|ypc S sV |b|x'x'n\|uc†

}vÈU|ç~}fr†-f|ypc†|yh'x|o} o†|p†f|ypc†}u |Yo|Ä-x#a}uc†

EBooh'Ufd~ -1.10BZÇE' m|b|x F \ | \ Ç|udE|d+r xÇo|W€h'ng+r ZÇE|d' W€r'äg'r }y|b|x x|Çc'çOV | |u\$~udE' }pU|h'x'eo|x F \ | \ Ç|udE|d+r xÇo†| ZÇE|d+r xÇo†h'mWh'mW'r'äg S sV h'r }y|b|x }vÈU|ç~n|WvÄ'U|p|u†

}u |e Ufd-j|çdu|Ufd~ "-1.6d†1.10



EBooh'Ufd~ "04

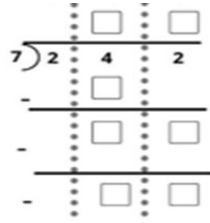
xÇo|Z|m|WU|pU|pc†

I v: x|n|ào|m|Wd+r m|W'r'äg F }c 1 |U v'çgh'U|bc†x'z'u|f' o' j~WcdE'eÄçÄ \ |çh'm|WU|p} o|EZE'U|pd|oç†

Ufd-Z#uupc.:

.....m|Ç|r |m\ U|U ah'm|Wh'm|WU|p'F }c 1 |U v'çgh'U|b|b|x }vÈU|ç~ n|WvÄ'U|pc†u|f' o' j~Wcd|ng+r m\ U F }c m|Ç S sV c†m|WU|p|Z#u}ug' \_ä† x'n\h'fç'Eh'U|f|ypc|Ç|Ij o\h|h'ç|Ufd-Z†b-U|pc }u |Yo|Ä'U|pc'EBooh' j|ç |Ä-U|jod|x p|u|Wcd† h'j|p|md'OU } o|x|n|YoÄ| U h'fç†

$$\begin{array}{r} 16 \\ 3 \overline{)48} \\ \underline{3} \\ 18 \\ \underline{18} \\ 0 \end{array}$$



ju le Ud-j EdU | Ud ~ "-1.11d#1.12

EBooh }hij E~Ud Z | j | 'oj EdU | v-x Gg-j Epjur <U h EBooh }hij E~

nêon | j h | Z#õdp :

	-1	-2	-3	-4
n<'o x Co  X#h'ub up' j  o md } o  uj h'xnõo  lf  ypc x'auc#	}fr eo x Co# ju}ug x Co  }ns jud'F jc u\   U pd<dx z'Wcd# o'lo'ns } o#  # x a}ud<"	v EU  c~ x }Zd' Uteo  n c# W E U  p' F jc' m MU  p' U h' x W~ o'lo' } o Z uj p' U pd<"	x uAn# } o  o x y }nE } o  F g  pd Wcd# u  o' j ~Wcd# x aud<"	fh#h' \ uh  d# x W'ioy p' Wcd nB#ns' } o Z  F u'ioU d#e p' uj p'U pd<u' o'lo' nulp' Wcd# x a}ud<"

.....EBoh }hij Ê~ n|0 -"&

fl , , , , t

.....} u | Ý}oh iÁjhÊ |~E'αE|dβ-o'ofhj | é o | ' fh~j o|C|F}c'Kc " \

j c|Á |ulj p|Z hÿw x n \ # "

F j éo|fh|h \ uh|d f v ào u'Ûbj È |r y|h u'n<'o|x C|o|Z h éoj }pZo u'ulj pU p c b|o :

l | h ' } n s } u d ~ r "

} u | Ý b } Á a y µKācx' g|Zcāby x |d'ulj p d<d x n \ h X † h EeĀĀ }pZo :

U h ' X † d | d "

### EBoh Uđ~ "01

}uy pZ|V \$ F }c fh|h iouy|p' x |d j c |Á |Z|ulj p

l ♣ : j c |Á |Z|EeĀ x C|o|p w p j c |Á |Z |E h EZU S s v d |o c †

Uđ-Z †u p c .

.....}v E U }u |Ýo|Á |Žgh "dx †µKc }Zāy|Z|o'io'ulj pu'Ûb|Z' b-U p c U p'Ûb|x ' }

uy p#r ā\_Uđ-F g|p' \ }h-Z-j |ds ~}Wp~ flup f t j |ds -F }c U }h j |ds -o|U éj h †

F g|p' j c |Á x n \ |uc †Ev |Z' U |p'h k |-d<\_|Zb-l d|p, a |u-† \ ,† \ u-† \ , d |j n |h |d f ' }

u|b'-l d|p U éj h d h fh|h x |WpZ h V \$ |Z F o \ h U h V \$ | |p' }u |Ýo|Á |gc' }



j c |Á F }c Kc j c |Á -EeĀ u'lj p x n \ h f c †



....."o c †k ~U h x |n|ào j |ds f O) |x h }Wp~ dx †U }h j |ds -S s v h'Ûb|h € |p Ž' }

gh "dx †µKc }Zāy|Z|EeĀ n \ h f c †Ev | U |p' Uđ~ |p'x C|o|p w p l \ u-† a f x C|o| }

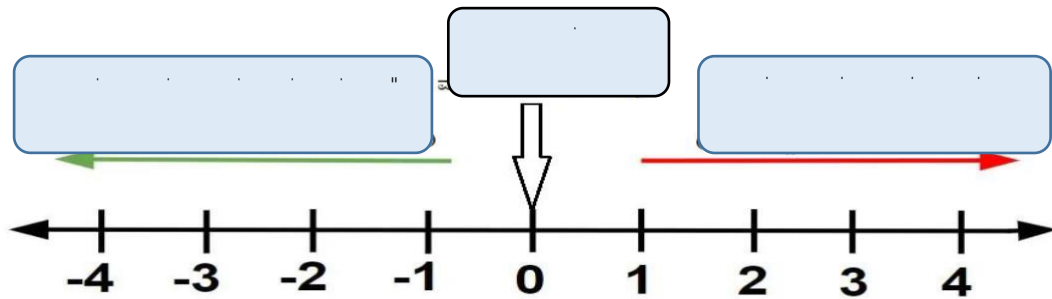
gh "j c |Á u' a |u-† a f x C|o|Kc j c |Á y EeĀ c Ā c † n \ h X † b |x n f d U p c †

V |r f ' x |W|h éj x C|o|b|o'io'Ž Ee u|µ}Zāy f † h }r y "

1k 500k\_|.....  .....212h~pj 6Z|r' 

3 764B|of|.....  .....4 \ n| 10000 

.....E"300~px n E U }h j |ds ~" 



Đu |e Uđ-j đU |Uđ- "-2.2i2.3

EBoh Uđ- "\$&

v ào fđj đ |r y|h un< o|x Ćo|S sV cđ

I đ :j c đ |Z-dđh|U h v ào j đ |r y|h F )c n< o|x Ćo|S sV cđ

Uđ-Z đupc. Đu |Yo đ |jfr đoj c đ |x Ćo|ng đ r y|h }Uđ|n< -x Ćo|v <gh Zđ đ  
 đ }yđ|x Đu |Yo đ |v E U |đ-x n\ h x đđ

o|x đđ đ |fr đoj đđpUđ-đc \ đ y|h n< đ c |, Zb-l đ |pđx đ h |Wđ -ng đ -j đ đ  
 j c đ |Z-ođ o }Zđ y S sV đ |Z-Uđ-f đđ

Đu |Yo đ |đpU |đ\ |M|mpđ|x j pU Uđ-đUđ|x Ćo|đđUđ Z-đZ h |U h f đđ

-7 6 11 -2 -5 4

14 -1 1 -4 -12 3

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16	-2	-6	13
-26	26	31	-31
3	-58	-67	58
0	-97	-79	0
-62	-8	-26	-62

Đu |e Uđ-j đU |Uđ- "-2.5,2.7,2.8,2.9,2.10,2.11

### EBooh Ufd - "03

j c Å |Z-1 pÅ u'u\ || |U U pç†

I v: :

.....gh j c Å F j c Kc j c Å u l p d x Z Û b |Z-1 pÅ u'u\ || |U } o |f h f h \ u h ' í ou y |p |d U x t u j p l u t U U |f |y p c t k a u c t | | d \ |c h X t f "

Ufd Z f u p c .

h t |O |X p O |n \ é o |Z | x O Û b |Z | p l p } u |Y o Å o |f h f h \ u h j h V a - d |f |y p c } u j y p - Z - j |d s - |Z |G n |p d - d f } r a \_ Z |u l j p G Û b |f - f |y p c | |t g h j c Å |Z |E e Å ð e |h F j c ' } Z à y Û b | | p l p Z | d p l b |j |o o |F g |p t K c j c Å |Z |E e Å ð e |h F j c u l j p l o Z t Z à y x n \ h ' X t f x C o |p t u p j c Å |Z t |d j h g Û f v Å Û b |Z |x p l u U h X t f } u |Y o t u Å |h ' E u r < U h |x | - d x Z x p l u |x | - } u |e y ð d U d - j t o d U Z |u l j p o x i o U p Û b |Z t h p - E c ' U p c t Û b |Z | p l p n |W f G o E d } v U r t o j c Å |Z - 1 p Å u'u\ || |U |f |y p c |Z - 1 \ s c - f t f

|n É o |h t ð i o } Z à y u Û b |Z | o x i o u l j p o | | |d \ |ð d u |u } u |Y o Å |j n s u h f t f } u |e U d - j t o d U |U d - " - 2.13, 2.14, 2.15

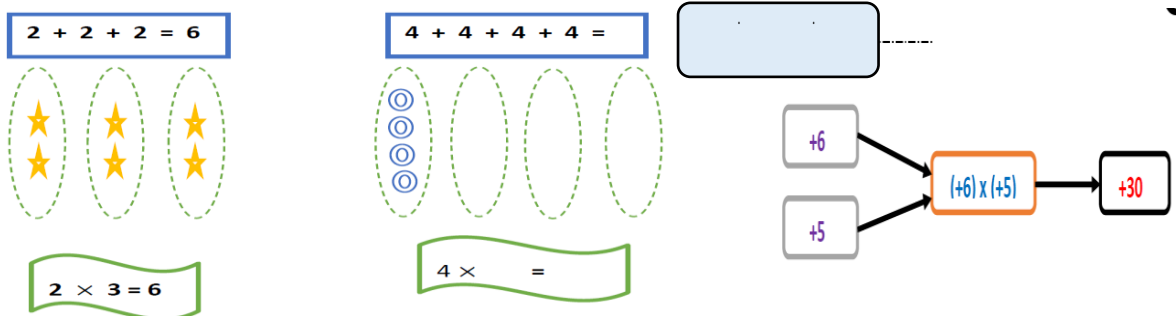
### EBooh Ufd - "04

j n s } u r | - W e r | d p y - n - O U Z "

I v: : | p Å d x Z j t p l u d | p Å } o t |t j c Å |Z |W e |U |p x n \ h X t f

Ufd Z f u p c . } u |e n |W f G o E d E B o o h U t r t - j c Å |Z - 1 p Å F j c j t p l u d d i p Å Z - U é j h F g |t j |o |m d U d Z |x p l u ' j c Å p d f E v |f |y p c |Z - # U d Z - j d Å |j v É U |G - U p l u -

- gh j c Å .....x gh j c Å "1" gh j c Å
- gh j c Å ".....x Kc j c Å "1" Kc j c Å
- Kc j c Å ".....x Kc j c Å "1" gh j c Å
- Kc j c Å .....x gh j c Å "1" Kc j c Å



1)

x	-2	6
-12		
-3		

2)

x	10	1
8		
-5		

3)

x	3	-9
-7		
10		

ju |e Uj d j } du |Uj d ~ "-2.17,2.18,2.19,2.20,2.21,2.22

### Eboh Uj d ~ "05

.....m|WU |pV \$

I v : j c |A |Z|m|WU |pU p|b|x }v U d f #x n\h X d f

Uj d Z f u u p c . n |W f 'G o E p B f v U r f |m|WU |p|O |U e j h z f } e p l u r <U h U p d j c |A |Z|  
 m|WU |p x n\h f c f E n y o " |n E o |h }u |y o |A |V |r -j f r e o | } o |Z -E e A c A |y d ~  
 f j Z a y # o |l f r E x n\h f c h y U |Z f y t

gh j c |A ".....÷ gh j c |A "1"gh E j c |A

gh j c |A ".....÷ K c j c |A "1"K c j c |A

K c j c |A ".....÷ K c j c |A "1"gh j c |A

K c j c |A ".....÷ gh j c |A "1"K c j c |A

$(+49) \div (-7)$	$\frac{+49}{-7}$	-7	"
$(-50) \div (+10)$	$\frac{\square}{\square}$		
$( ) \div (-11)$	$\frac{\square}{-11}$	-9	

ju |e Uj d j } du |Uj d ~ "-2.24,2.25

Eboh }hij E -F g |p d j | x C g -.....j c |A m|W %G o E |x |d u k

nêon |j h |Z†ōdp'.

	-1	-2	-3	-4
j c  Å  Z~ U ej h  x n\ h' X† h  b  up' n r m d } o   u  j h x n d o   I f  y p c † x <a> } u c †   p \ , u \     U , W €   U   p , m   W U   p t	gh F } c ' K c j c  Å' S s V d k.	j c  Å  up r' I p \ u \     U' x C c d } o   x <a> } u d < F } c' x C o   p w p' I p \ u' u \     U' I f  y p c † Z a y C u  j h' x <a> } u d < "	j c  Å  up r' W €   U   p F } c m   W U   p x C c d' W c d † x <a> } u d < "	j c  Å  up r' n s' } o   d x †' f h † h' \ u h   d †' í o u y   p x n d o   W c d † x <a> } u d < "

EBooh }hij Ê ~ n | O ' -3

Ej c |Å |Z - U ej h | d x † E j c |Å | C o | I p \ u \ | | U } o † | x p | u ' U p c F } c } u v  
Ej c |Å |up W € | U | p u m | W U | p } o | U p d | o c †

EBooh }hij Ê - Z † o | - F } c n y ũ

Ju | e ' o | EBooh }hij Ê - F g | p F j é o | f h † h \ u h | d o c | o | E j c |Å | Z - x C c d j c Ä  
F } c | b | Z m | W j | u E g | Å | U h G b | f - u | j p | | d Z | W g s u | b | W g s | Z † x | o } h p x h'  
U h | b | Z | o x | o u | j p U p | b | Z † x n \ h X d † " E j c |Å | Z † U | p x n \ h n s } o † | p f h † h'  
\ u h | v } h W a d u d d ž j o † F y | p j f | e Å | Z † x | o m | W U p | b | Z † x n \ h X d † "

EBooh U d ~ " 01

j c Ä } c | b | C o | } u d d | j p d m | W Z - d € h | U h E j c |Å | Z † U | p x n \ h X d †

I † : " O U j c Ä m | W } U C | U | y - u d d Z m | W U x † | p d | o c | d y † } Z x n \ h X d | d u j c Ä  
m | W Z } u } u g m | W U h E j c |Å | x n \ h X d † "

U d - Z } u p c .

..... Ju | e EBooh U d - n B } r † m | W u | b | x C c d x C o | Z - d € h | U p d † " j c Ä  
m | W j † | n c | E e u | j c Ä m | W j † | U n - E x c | p | E j c |Å | S s V h | b | C o | } u } u g j d Z - o | f ~  
} r } y c †



Ujd-Z-E6r l \ |uc -µ

x C o | p w o | x n | h m | W | o | F g | p | j c A | p c F U j d ~ n | 0 ' 3. 2 )

Ujd ~ n | 0 ' 3. 6 Ujd - o | ' ' O U , c ' 6 m | W | j U ' O U m | W u | j p e o | x - E x j c A m | W | j E | r y | h ' E x k n \ c †

ju | e Ujd - j o d U | Ujd ~ " - ' % d † " \* .

### EBooh 'Ujd ~ " " 02

.....Ej c | A | Z - d E h | "

I v : Ej c | A | d f U < c d | n < | U < c d | r y | h u U < c d | x n } U C u | x n | h y k n \ h X c †

Ujd-Z fuupc . :

ju | e Ujd - j o d U | d f } Z | x } y d } f r † t u E j c | A | Z j c A m | W u x } Z | p w e | m | W o | Z ~ d E h | U ' h } r } y c †

f < h E j c | A | n b o f † = j k | n < | z x n | h u j E | r y | h S s V h } Z a y | x y j o U | a e | \ | W | m h X c †

Ujd ~ n | 0 ' 3. 9 } c ' n g f E C F } c [ f ' o | b | ' W e h x n | h ' E j c | A | } r } y l b | x ' < U k | y h ' f c †

Ujd ~ n | 0 ' 3. 1 F . } c " 3. 1 B b b i o } Z a y u | j h j o U | a e | \ | W | m p l b | x } u | Y o | A | u | u ' f c †

I f | " - >

ju | e Ujd - j o d U | Ujd ~ " - 3. 6 d † 3. 8

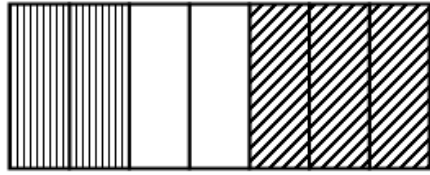
### EBooh 'Ujd ~ " " 03

.....Ej c | A | Z - f A u u \ | | | U

I v : f h e h \ e h | d ' x W | d f [ f ' x n | h E x d | h | } U C u | } m a h E x d | h | E j c | A | x C o | } n s } u c } U C u | U n - U p c t u i o u y } j o U ' x n o o | x < a u - e | o c †

Ujd-Z fuupc . :

.....U | y - j c A u d d Z } h u a U ' m | W f † h } n s } u c } U C u | u \ | U p c F % o r † Z t m | W o | x | p V † I f | y p c ' d x Z X p | n g f k p v - Z t m | W E v | } u } u g I f | y p c | | p t E j c | A | Z - f A u u \ | | | U ' x n \ | u c †



$$\frac{2}{7} + \frac{3}{7} = \frac{5}{7}$$

Uđ~ n|0 3.14hB#l p\ F }c u\ || |U x Cgd U y-x C|p|yéo|F yđ'Üb|x C|o' o'ío} oF g|pEZU }r yh Xč }Z |d'áo|pW|mWZ}Z |d'pU x pW|mWZpW' Exr # |mW-

ju |e Uđ-j }dU |Uđ~ "-3.6d }3.16

**EBooh Uđ~ "04**

.....Ej c |Ä |Z|W€|U |pF }c m|WU |p

**Uđ-Z|'i }"-**

.....j cÄm|W}UC|Üb|Z }u}ug m|Wo|Z|EeÄcÄ|yd-}ns }uc }dx }OV | |uödz} u|j U n-r <U |ö|x n|h u|j U x }p|o#r y}k n\c}

**Uđ-Z }uupc.**

.....}fr }o|Ej c |Ä |ö|E C F }c [ f|r |W€h Ej c |Ä |Z }k nm|Ww <gh }r }yc}

pEeu|f u|j p|Z|EeÄ n\h X}h Uđ~3: 2}g r 'OU,c k€ }n\h Üb|ö|F g|p}U |æ| \ |M|mpÜb|x }u |Yo|Ä| }p d U pc}

**I f|"-Z }8"=-**

.....f <h Ej c |Ä |Z|m|WU |pU pd|h |m|WU |p|Z|í oöđ "U h fW€|U |p|d' j }pudÄk

W€|U |pU pÜb|Z }k n\h fč}

Uđ-E ö r | \ }uc -}uUđ~ n|0 3.25 (1) |pövd pW }ä-

.....F a í o|pövd pW }ä-

o|Z|W€|U |p- ' - ' - (f <ay -pövn)É d pW }äk

Uđ~ n|0 3.25g r 'OU hn€|f }h pövs sV }j }r }r } } o|r Éj uÄ S sV }h' Üb|Z' |Üb|Z }Xp'ío'ío U |p}r |uÜb|Z|Uđ~ nU h Xč}

ju |e Uđ-j }dU |Uđ~ "-3.17d }3.23

**EBooh }hij É-x Cgd }| -Ej c |Ä |F }c fv |C Ej c |Ä |m|W-%öÉ|-x |duk**

nêonlj h''õdp

	À1	À2	- 3	-(
Ej c À Z~ U ej h dx Z' Ej c À O  I pA-u\  U' } oZthh' Upc F }c' }u}v Ej c À  F upW€ U pu' m WU p} o  Upd oç†	Ej c À Z S s V' I  h F y†dx Z' Ej c À F }c' Üb x CG~Z Z~ d€h U pd oç†	[ f''xn h' Exc o  Ex d h  Ej c À Z~I pA u' u\  U U pd oç† F }c'xn Ej c À  }r }yd oç d"	[ f'xn h' Exc o  Ej c À Z~I pA u' u\  U U pd oç† dx Z'Ej c À Z  W€ U pF }c' m WU pWcd† x <a}ud<"	Ej c À Z  W€ U pu' m WU p} o  Upd oç†u o  j -Ej c À  Wcd†s } o  ulj h''Wcd† x <a}ud<"

EBoh }hij Ê~ -(

EBoh }hij Ê~: fv|C'o|Z~ns U ej h|dx Z'fv|C'F g|pd I pA u\||U'  
} o|Z†|p|ur <U h Upc F }c }u}v fv|C'x C|upW€|U|pu'm|WU|p} o|  
Upc†

EBoh }hij Ê-Z~io| ~F }c'nyÜ

o|}hij Ê~O|EBoh|hçpfhçh \ uh|dç fv|C'x C|ozthyx n\# "fv|C'x C|o|  
F j eo|fhçh iouy|p\ uh|dç 'OU'E}um|O'EWF ytu\h ž x Z~žn|j h o|O|j yj çÄ  
EeÄ|~U ypd|fv|C'x C|ox y|çou ~ pd|d'†y|}u |Yo|A|y~hij Ê~io|uy|p|fhçh  
\ uh|d|I Ên|j o\h|ÜhU ~ pd†

}u |Yo|A|fv|C'x C|oz~I pA F g|pd I f|ypc|Z~I pA U h dx Z'fhçh \ uh|dç'  
x W|Z†f|ypc' j ~ju|pc U h fv|C'x C|oz|j }pZo U h fç†fv|C' } C|Zthyx'  
æç\ Z'fv|C' }Zayxn\h fç†

EBoh 'Ujd~ n|O' -4.1

uõdO|r|CZthlj h Upc†

I }v:fv|C'x C|oz†WU|pc U h u|Zh Upc†

"Ujd~ju|pc."

„ju |yo|Ua|Exr|o|j|axr|z|h|U|U|j|o|x|y|o|h|h|n|U|p|U|Z|x|U|h|n|h|  
kr|U|up|r|yc|t|v|E|U|c|j|c|A|C|o|h|r|yd|fv|C|x|C|o|k|r|U|up|r|yc|t|u|fv|n|h|  
x|C|o|Z|j|p|Z|o|U|h|f|t|t|

j -up|Exc|o|x|3/4n~p|u|r|n~p|o|Z|t|j|D|p|x|n|u|h|f|t|t|

1x n~=1Qn)n.

1Qn)n1—:x n~1\$1x n~

o|Z| U|p|h~p|Z|x|3/4n~p| j|D|p|x|n|u|h|f|t|t|

1n~p|1%\$x|n

1x n~1“%\$“n~p|

% n~1—:j|n~p|1“\$O|n~p

o| U|p|u|j|u|g|u|o|d|Z|h|n|U|p|U|Z|x|G~ju |yo|A|f|t|t|

ju |e|U|d~y|o|d|j|D|U|d~U|d~ n|O|-4.1d|4

**EBooh'Ud~ "-&**

fv|C|1||d|Z|t|u|A|h|\|c|c|t|

I v:}fr|o|x|C|o|Z|t|e|h|n|e|o|d|U|b|d|o|o|U|C|d|\|c|h|r|yc|t|

U|d~Z|u|p|c|:

.....n|W|E|Booh|U|r|o|o|e|h|n|e|o|d|U|b|C|o|l|\s|c~|p|f|v|C|Z|t|u|A|h|  
Eur|U|h|U|p|c|t|d|U|b|d~x|C|o|d|U|C|x|C|o|d|U|b|d|r|y|U|b|Z|x|p|u|X|t|t|

ju |e|y|o|d|j|D|U|d~U|d~ "-4.5

**EBooh'Ud~ "-"**

a|}f|u|x

I v.fv|C|x|C|o|d~r|y|h|n|~x|C|o|S|s|V|c|t|

U|d~Z|u|p|c|:

.....ju |e|y|o|d|j|D|U|d~U|d~E|O|d|U|b|n|B|f|r|o|f|v|C|x|C|o|n|g|r|y|h|n|~x|C|o|  
S|s|V|U|b|x|x|n|u|h|x|C|t|x|Z|U|b|Z|Z|b|d|H|d|p|d| n|S|s|V|h|r|y|U|b|x|ju |yo|A|  
u|f|U|p|c|t|

ju |e|y|o|d|j|D|U|d~U|d~ "-4.6;4.7

EBooh 'Ujd~ "-'

fV |C'x'Co|Z~ pA u\ | | U

I v .1 ao|S s ~uF a io|S s ~nBo}fr }o|x'Co|d' l' b|d }r }yc F }c 'u\ |U p'ub|x' x neA  
y<c#

Ujd-Z}uupc :

.....F a io|S s ~F }c l' ao|S s ~d }fr }o|fV |C'x'Co|d' l' b|nBo}fr }y'ub|x' }U'U|  
u\ |U p'ub|x' }u }Yo' A |x n\ }h f'c' d'x'Z' o|F g' }p'd' f'h' }h \ -uh |d' }r }u'jug' ' x' }U'U|  
x' }m' A' }p' }n' E' } o|U p'ub|x' }u }Yo' A |' u'F' U'p'c' #

}u }e }y'od' }j' }o' }U'U' d' }r' U'jd~ "-(' , d' }t' .10

EBooh 'Ujd~ "-)

fV |C'x'Co|Z~ |W'U' |p'F }c' m'W'U' |p

I v .x' }a' }o' }j' d' }o' |n' f' d' }h' }W'U' |p'F }c' m'W'U' |p' } o|U }h' f' h' }h' \ -uh |d' } o|Z' #  
| }j' o' \ }h' }U'p' d' |o' c' #

Ujd-Z}uupc :

.....W'U' |p'Z' }h' o' n' }u' }j' }h' } }U'U' | \ |c' }h' f'V |C'x'Co|Z~ |W'U' |p'U' p'ub|Z' #  
x n\ }u'c' }W'U' }d' }x'Z' }W'U' }o' |n' }Bo' }E' }x' }c' |o' }j' }C' }o' |F' g' }p' }W'U' |p' d' }f' }W'U' }r' }a' }g' }L' } }C' ;  
' }u' }b' |Z' -x' }p' }s' }j' } d' }x' n\ }u' }h' f'c' #

If |.2.5x2.5=6.25

fV |C'x'Co|Z~ |%\$%\$%\$%\$ }h' }W'U' |p' d' }h' | }u' }b' |d' }r' }\$ }o' |x' }Co| n' |c' }W'U' |p' }o' |f' }W'U' }r' }a' }g' }L' } }C' ;  
| \ }i' o' | | \ }r' |fV |C'x'Co|Z~ | } }C' }r' }y'ub|Z' -j' } d' }x' n\ }h' f'c' #

If |"%458x100 = 145.8

U }y' -f' }y'p'c' | }p' }f'V |C'x'Co|Z~ }c' }A' }C' }o' d' }j' }o' }p' }d' }x'Z' }f'V |C'x'Co|Z~ }h' }m'W'U' |p'Z' -j' } d' }  
}u' }jug' }f' }y'p'c' | }p' }u' }Yo' A |x n\ }u' }h' f'c' #

u' }b' }f'V |C'x'Co|Z~ |%\$%\$%\$%\$ }h' }m'W'U' |p'Z' -j' } d' }x' n\ }h' f'c' #

m' \ }U' }d' }E' }x' }r' }o' |f' }E' }v' }a' }o' | }o' |F' g' }p' }m'W'U' |p' d' }f' }m'W'U' }r' }a' }g' }L' } \ }i' o' | | \ }r' |fV |C' }Z' }a' }y' } }C' ;  
n' }u' }b' |Z' -j' } d' }E' }h' }U' }f' }y'p'c' | }p' }x' n\ }u'c' #

x' }f' }p' }h' }i' }j' }E' }o' |' }b' }U' }p'c' }x' |' -E' }h' }U' }f' }y'p'c' }u' }Yo' A |x' }a' }u' }b' |x' }f' }h' }x' }p' }u' }X'c' #

}u }e }y'od' }j' }o' }U'U' d' }r' U'jd~ "-(.1 d' }t' .19

EBooh '}h'ij' E~F' g' }p' }d' }U'jd'Z' |' }x' }C' }g' }j' |' ' }n' | }o' ) }E' }j' }c' }A' }u' }f'V |C' }f' }C' }o' }E' |x' }d' }u' }c' #

..... }j' |' ' }n' | }o' ;' "" }m'W'U' }r' }a' }g' }L' }x' }y' }u' }c' #

nêonlj h''õdp

	À1	À2	- 3	- (
fv  C' o Z-ns' Uêj h dx Z' fv  C' F g pd  pA' u\    U } o Z† j êp ur <U h' U pc † F }c }u}v' fv  C' x C'o upW€ U  p'u' m WU  p} o  U pc †	fv  C' x C'o Z† u Zh' U pd< u ðe  h' nêo' d'í Üb d' EZU' }r }yd<	F a'í o S s- d'ú' l'áo S s- d' }fr † fv  C' ðe  h' nêo' d'í Üb C' u j p h † pA' u' u\    U 'U pd<"	x <áo j d~  p† fv  C'Z ' W€ U  p'F }c' m WU  p'U pd<	f h'ê h' \ -uh d'f' U  y~ l f  y'pc  C'  p† fv  C' u' Üb up'f' ns' } o EZU' U pd<"

E Bôoh 'jhij d~ . - )

E Bôoh 'jhij Ê-: 'j êp|ud d W€|U |p|Z x'ê' j 'ayc \ X|d|O y'x n\ h' Xc' t' }fr' êo| x C'o|C' |u'ð|p-d'j d'ul'j h' X|d|O' j |d'n|êd|o'c'†

E Bôoh 'jhij Ê-Z-~|o| ~F }c' nyÜ:

..... W€|U |p|Z x'ê' j 'ayc \ X|d|O y'o" X|d|O F j êo|f h'ê h' \ -uh|d'n'ê o'm'j n'U | }hm|ud Ex d|d' Ê † k s }u'ð-ê A'x Z' Xh'k s n'êd|h|X|d|O |Z † n'ê j | F y'ê U Z' x C'o| j 'êy|j 'êy|W€|U |p'h' }r }yÜb|Pu\ -X|d|O n'êc' † Ê n' pd†

..... n< n<' o|x C'o|' X|d|O |h' f'v' A'êo|x 'x n\ h' Xc' b|x X|d|O x y|ç' ~ vU d<

l f |y'pc -j 'yü-Z' u'ðê|h' ), -+\*, \$\$\$ \$\$\$ \$\$\$ \$\$\$ \$\$\$ \$\$\$ \$\$\$ ' F y'ty'F j c

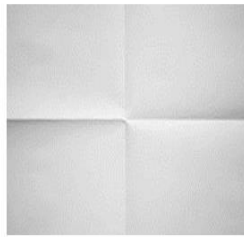
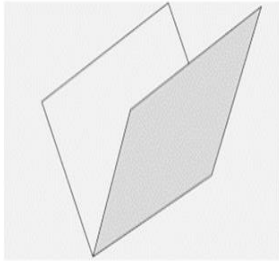
...)"-+\* ' %\$&' Ex x'ê' j |d'X|d|O C' |n'f d' h' Ê ZU' f'v' A'v' U d<"

E Bôoh 'Ujd~ "' %

..... U |W'f |C' |f' e a Üb|C' |' Ujd- d' h' X|d|O x n\ c †

l 'v' : j êp|ud d W€|U |p|Z x'ê' j 'ayc \ X|d|O y'x n\ h' Xc' †

Ujd ~}uupc : "OU U |Wf X† h d,%2,3u\$ |"f ead \ |uf ead|h|' ÜbU u\$ -}hn|Ä y<c |p  
 ZOE ZF od F Ufb|ZWE|U |p' j |d x Zuh }fr † |d |mpluh|OpX|d|O' j |d flu|p|p'  
 oç |o|u|j |p|u|d|Ä|x Ço|x Zuh }v E U |b-x n\h fç†



f eac†x Ço	1	2
d o   p' y < c	2	4
Ejç  Ä' j	2	2 × 2
X   d   C U r } jy	2 <sup>1</sup>	2 <sup>2</sup>

Ev | U |p|u|w|v|é|o|x Ço|Z†u|ö|ç† j f†h X|d|O' j |d n|a|Ü|Z†r }yÜ|Z†n\|uc†

X   d   C : 5 <sup>3</sup>		u   Z h µj'  ZZh ' X   d	
F g   p	X   d   C	} u ö d   y : 5 × 5 × 5	
5	3		

ju |e yöd j }edUtd† Ujd ~ "-).1d†)"(

EBooh Ujd ~ ""&

.....X|d|O' o|Z-}UÇnd v <gc F }c }fr ço|x Ço|Z†X|d|O' öu j n|äc†

I † :

.....}fr ço|x|d|Z†u|ö|ç† j u'Üb|X|d|O' Z-}UÇnd v <gh'd'x r y|h }UÇ|n'ç |  
 ` p|ud|oç †dx Z }fr ço|x Ço|Z†u|ö|ç† X|d|O' n|äc|oç†

Ujd ~}uupc :

..... f'h'X|d|O' |Z|u|ö|ç†p'r }yc †u'WE|U |p |p}UÇnd v <gc †u'U <c d|X|d|O' n'ç |  
 F y††x U |p|uo|Z†h|Äv Ä U pc†

$$4^3 = 4 \times 4 \times 4 = 64$$

$$3^4 = 3 \times 3 \times 3 \times 3 = 81$$

o | u'  $3^4 > 4^3$

fr eo|x Co|ZmWU |pj d-h|b|Z E }um|Co X\_U v <gh h d p X|d|O j |d n|@Ub|Z ~  
j d x n \ h X c f

$$\begin{array}{r} 5 \overline{)125} \\ 5 \overline{)25} \\ 5 \overline{)5} \\ \underline{1} \end{array}$$

$$125 = 5 \times 5 \times 5$$

$$125 = 5^3$$

fr eo|x Co|b|ju}ug F g|p|O x Co h t m W U |pj d-h|\_âo|\_âo|h X|d|O U |b|b|Z t  
x n \ |u h f c f

$\begin{array}{r} 2 \overline{)256} \\ 2 \overline{)128} \\ 2 \overline{)64} \\ 2 \overline{)32} \\ 2 \overline{)16} \\ 2 \overline{)8} \\ 2 \overline{)4} \\ 2 \overline{)2} \\ \underline{1} \end{array}$	$\begin{array}{r} 4 \overline{)256} \\ 4 \overline{)64} \\ 4 \overline{)16} \\ 4 \overline{)4} \\ \underline{1} \end{array}$	$\begin{array}{r} 16 \overline{)256} \\ 16 \overline{)16} \\ \underline{1} \end{array}$	$\begin{array}{r} 256 \overline{)256} \\ \underline{1} \end{array}$
	<div style="border: 1px solid green; padding: 5px; display: inline-block;"> <math>256 = 4 \times 4 \times 4 \times 4</math>  <math>256 = 4^4</math> </div>	<div style="border: 1px solid green; padding: 5px; display: inline-block;"> <math>256 = 16 \times 16</math>  <math>256 = 16^2</math> </div>	<div style="border: 1px solid green; padding: 5px; display: inline-block;"> <math>256 = 256^1</math> </div>
<div style="border: 1px solid green; padding: 10px; display: inline-block; width: 80%;"> <math>256 = 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2</math>  <math>256 = 2^8</math> </div>		<div style="border: 1px solid green; padding: 10px; display: inline-block; width: 80%; border-radius: 15px;"> <math>256 = 2^8 = 4^4 = 16^2 = 256^1</math> </div>	

ju |e yöd j } @ U t d f U d ~ "-).) d t "+



E Booh 'Uđ~ "'-"

.....F g|p|0 "Kc j c |A' Ex êo|x X|d|0 |Z~}Uđd

I ψ '-

....Xd|0 d x C|o|Kc x C|o|Ex d|h|X|d x n }Uđ|}uwn Ex êo|x X|d|0 |Z~}Uđd ~ p|ud|  
oç†

Uđ-Z†}uupc :

.....F g|p|0 x C|o|Kc Ex d|h|Üb|Z|X|d x n x C|o|Ex êo|x X|d|0 |Z~}Uđd'  
gh|ÜhU x C|o|y d†\ pKc F g|p|0 |Z|X|d }uwn x C|o|Ex êo|x X|d|0 |Z~}Uđd'  
Kc|ÜhU x C|o|y d†}x n\ |ud|h|EhÜ hnE|f|y pç x auh }u |Yo A|x n\ |uh f ç†

}u |e yöd j }E dU†† Uđ~ "'-")",

E Booh '}hij Ê~F g|p|0 Uđ-Z|ç | 'x Cç-j | ' "-% "X|d|0 "fCoÊ |'+u~m|W-&ç

nêon |j h 'öd p'

	À1	À2	- 3	-(
j }p ud d' W€ U  p Z† x }E ' j }ç\† X d 0 y x n\ h' Xç† }fr }o  x C o E  }uöd  p-è j d' u  j h X d 0' j  d n  è d  oç†	}fr }o  X d 0  d f' F g p x C o X d  x }U 'S s V d  oç† }uöd  p' F }c }Uđd' v <gdç"	}fr †  X d 0' }uöd  p d' j  d' }r }y dç 'u }Uđd' v <gh 'U  bdç"	}fr }o x C oZ† }uöd  p d' j' }r y dç 'u Üb  F g p† X d 0 'o  Z~oç† o' n  è c ~u }uöd  p' U pdç"	f h }E h \ -uh  d f' nç 'o x C o  X d 0  d n  è dç' }Uđ x  è dç" X d 0  up inç' } o U pdç"

.....EBooh }hij Ê~ "6

EBooh }hij Ê~ v ð a|pZ E j c |Á |d F }c f v |C |d' j |Cp U pc t u |b |F g |jpd W |c d~ } o |x < a }uc t v ð a |h k |#d \_ |u x ps í o | \ F g |jpd f h Æ h í ou y |p x n ð o |W |c d t x < a }uc t

EBooh }hij Ê Z í o | -F }c ny Û :

.....o |}hij Ê ~ |EBooh |h C p }u |e [ f ' 1 O D x r t E j c |Á |Z t v ð a |p d' j |Cp U pd |d ž dx Z f h Æ h í ou y |p' x W |c d t p b |x }u |Y o |Á |x Ê n' |h }uc t í ou y |p |n B t }uc |p h k |ž d \_ |, v ð a |h k |, v ð a |d \_ |F }c x ps í o | \ |n B t v ð a |p Z ð e |h x n \ h X t t

EBooh 'Uđ ~-1

j c |Á |v ð a |F }c f v |C |d' j |Cp

I v :-OV |f |j }pn |c |Z ~v ð a |p x n \ h X d |h |o t |o |E a Z c h |E j c |Á |C |n f d h t x ps x < a |j }d h t x n \ h X t b |x n f d U pd |d . o |F g |p E j c |Á |Z t v ð a o |d dx Z f v |C |d' j |Cp x n \ d t

Uđ ~juupc :-

.....OU í o |j |p ~j u }ug j }pn |c |d }u }ug' U |p C |m |C |~ t d E x d k . Û b ð m \ Z t u \ h' v ð a o |n B t }uc t }o F y t e c h u \ h % S k g Û b ð m \ Z t u \ h f |f | - u |W % k g )

— Ex t r y h Û b |Z t v ð a |% | Ex t r }yc t x j t y o . Ex t r }u }ug m \ j |e o |Z t v ð a |u \ h' x n \ c t }o y d v U d t t x n \ |uc t

Uđ ~6. h B t U h n k |}f r |F y t

Ej c  Á	v t U a	f v  C
$\frac{45}{100}$	45%	0.45

}u |e y ð j }C d U t d r ' U đ ~ "-\*"1 d t "(

EBooh 'Uđ ~-2

u |j }v ð a |p ~

I v :-f h Æ h \ e h |d r E j c |Á |ž f v |C F }c v ð a |p ~o |C |u |j p U pd |o t t

Uđ Z juupc :-F j c f h Æ h \ e h |d r í ou y |p' x W |d E h ð u \$ |m W f |p y d h j v |Z ~ f t |c X t |c U pd E x d k . v |r o |u |j W ð h y x o t h F o \ h U pd |h |F j c x € |E h ð U |n t \ | |f |p h t u |j U pd E x d k h |3 Û b |Z |v ð a |f v ð a }uc t x p |n B t }uc t € |ð u o |C |U X p |d r j f |e Ä u ð d Z t U C |G d p u ð d ; F j c v ð a |m |W d x |W d E x d k y t u |Y o |Á |x n \ |uc t

Ev | U pE hU l f | ypc | | p v U a t | p - x n \ | u h f c †

EBooh Uđ~\*) U | y~ | Ūb | Ū | h | u | h | ū | u | g | x | Ć | o | } | f | ē | o | F | y | ū | V | \$ | | p | x | Ć | o | x | Ć | g | v | < | g | h |  
| c - h | Ć | u | x | Ć | o | | o | Z | x | Ć | g | r | u | c | † | l | f | ypc :

v † U a	Ej c   Ū	f v   C v	c ~ .
<b>R15%</b>	<b>A15/100</b>	<b>T0.15</b>	RAT I C f ~

ju | e Uđ~j } ū d U t d f Uđ~ "-\*) :

### EBooh Uđ~-3

v U a t | p - Z | l j o < W

I v :- ..... ju | ū o | Ā | j | p | Ē | ū | n | s | r | † | Ē | Ū | d | x | Z | i | o | u | y | p | u | j | p | ž | x | | i | o | u | y | p | o | B | †  
v U a t | p - Ex d Z ( O C ) r | } | r | † | ū | n | v | h | Ev | l | | n | B | v U a t | p - Z | l j o < W | c | h | X c †

Uđ~}uupc :- :

EBooh Uđ~ n | Ū \* . + n | B | † | Z | † | Z - U | ē | j | h | } | r | † | - F | y | ū | o | Z | F | g | p | ū | < U } u | ū o | Ā | a | h |  
x k r d | j | ū | j | c | Ā | h | X c †

$$10 \times 75\% = 10 \times \frac{75}{100} = 7.5$$

EBooh Uđ~ n | Ū \* , n | g | f | Ū | c } Ū Ū d } f r - h | y - j | c | Ū | F | g | p | ū | c } Ū Ū d } a | y | c | h |  
h n | l | l | f | ypc | x | n | h | Ć | d | p | W | c | d - U < U } u | ū o | Ā | a | h | j | c | Ā | h | X c †

ju | e Uđ~j } ū d U t d f Uđ~ "-\*.8

### EBooh Uđ~(

v U a | h k | ž | v U a | d | c | \_ | F | j | c | x | p s | i | o | \ | o | x | Ć | g - W | c | d | † | x | a | } u | c | †

I v . : F | j | c | i | o | u | y | p | ū | p | d | h | h | k | # | c | \_ | E | h | ū | d | ž | v U a | h k | # | c | \_ | ž | x | p s | i | o | \ | Ev - i | o | u | y | p |  
W | c | d | † | ū | p | d | o | c †

Uđ~}uupc :- EBooh Uđ~ n | Ū \* - v U a | h k | / | d | c | \_ | W | c | d | † | ū | p | d | h | h | k | / | d | c | \_ | v | < | g | h |  
v U a | h k | / | d | c | \_ | x | , | Z | | u | j | p | ū | h | E | Z | Ū | W | c | d | † | x | a | } u | ū | x } u | ū o | Ā | x | n | e | Ā | h | } u | c | †  
Uđ~ n | B | † | p | h | F | j | c | } | h | h | † | x | a | } u | r | † - h | n | h | l | f | ypc | Z | † | h | p | Ē | c | Ū | p | ū | x | x | Ū | c †

Uđ~ \*.10 B † x p s i o \ x Ć g d :

x p s i o \ 1 n e r @ i o \ Z | f p @ Ū | r | u | g ~

.....100

$$\frac{\text{---}}{\text{---}} = \frac{P \times T \times R}{100}$$

o|x , |@|u|j p|h x ps í o| \ U |bc †

'U |r |ug -†) uw|A|B|C|h |U p|oZ -Ex êo|x ' .

OU uw|A|%

'U |r |ug -n|yào|d "1" }r † n|y|h †

..... uw|A|OU,c n|y|h †

U |r |ug -}fux |d "1" }r † }fux ' .

..... uw|A|OU,c }fux

ju |Yo|A|ah í o| \ žer ž o| \ |Z|f pžU |r |ug -U |b|b|Z|x p|uX † †

ju |e |U|d -j }d|U|d - " - \* " - u \* " % \$

EBooh '}hij d -U|d -Z |j | ' x CG : -j | ' n|O ; m|W&f|CoÊ |x |du †

### nêon|j h 'ôdp'

	A1	A2	-3	-(
v a t p-Z † Ej c  A  dF }c fv  C d' j  Cp U pc † Üb  F g pd W cd - } o x <a>uc † v a h k  # d<_  ux ps í o  \ F g pd f h h í ouy p x n o  W cd † <a>uc †	[ f % \$ Ex r  e  Ej c  A  Z † j  Cp v a t p-F }c Üb Z f v  C d' j  Cp U pd <F }c hk  d<_ x CG - W cd † U pd <	[ f % \$ Ex c  o  Ej c  A  Z † j  Cp v a o d U pd < F }c p  U n,u\$ u' x ps í o  \ o Z EeA x n \ d<	Ej c  A  , v a , fv  C  Ej c  A  o Z † j  Cp U pd < v a h k  , v a  d<_ x , u j h' W cd † <a>ud<	f h h \ -h' í ouy p d < x ps í o  \  f y p c † ,  C  x y C h † x <a>ud< . v a  F }c x ps í o  \ x CG d W cd † U pd <u' í ouy p d'  j o  \ h U pd <

## E Booh }hij Ê ~ "-7

E Booh }hij Ê ~ mnd-Z-nš U ej h | - } CžwžU pc ž dr žU <h, U <h | Z† U | p'u'U <h' pZh | U | j d-x n\ h' pZh | U pc †

### E Booh }hij Ê ~ i o | ~F }c 'nyŮu'

y~E Booh }hij Ê ~F ay~x u | U | \ u h | v ~ } h W ad' F y† U | pc' F j c' F j é o | x mud~ j | yé o | x } f x c | o | E h | U' F U | b | o | W r' f u' k' } U C | x p s' p' w | b' - d o | p' y < d | d. U j p' U <h, x ndr | U | d' - j | y h' Ů b | | r' \ | c h' X | U | x' o | e' t u | u' F y†

..... o | } hij Ê ~ n B † F j c' } | C, p' w, p' w' Ů, } U pc, 'U <h, 'U <h | Z† U | p, d x † Ů b | Z' - p Zh | u' n \ n | j' x n \ h' X | U | p' F y < d.

## E Booh 'Ujd ~ "-%

} j U † \ < a h' } dn | v < g | u' S s V |

I v :- mnd U | nš j } U ej h | } C j | x h' | p' n U' h'

..... p' w, p' w' Ů, } U pc, 'U <h' o | Z | j } p Zo' U' h' f † †

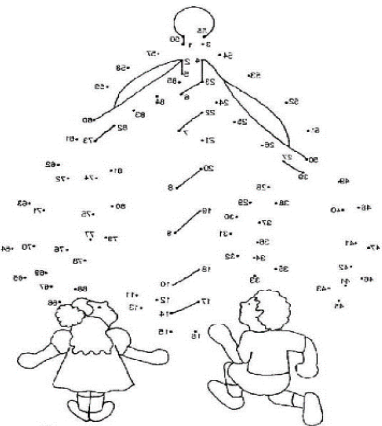
Ujd ~ } uupc :- } u | e' n | W r' ' G o E † } hij Ê ~

x C | g d \ | c h' F y d' d' t y | Ů b | U | j e | h | U | u | j p |

' | p' x | g - x j' - U | y - f | y p c' t u' Ů b | U | x' p | u | | p' †

Ujd - d h' j } p' c' E e | U' - U' h' f † †

} u | e' ' Ujd ~ } } Ujd ~ ' E Booh 'Ujd ~ ' + "% d † + . 9



## E Booh Ujd ~ 7.2

U <h' pZh | U p Ů b | U | x | y Ů b | Z | j } p Zo

' I v :- mnd U' pZh | U p Ů b | x' | n' E o | h †

r | W c | p - f | j U pc † n \ j' - ' U <h n | j U, ' U Ů p' o | Z |

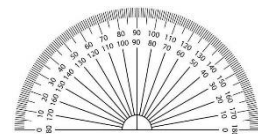
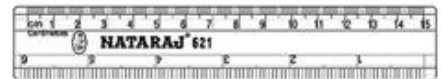
u | j p x n \ h' X † †

Ujd ~ } uupc :- ' n | W r' ' G o E † } u | e' p' w' } v U r †

F y d' ž F d | Ů b | U | U <h n | j U | U | u | j p | h' h' | c ~

' d p' U Ů p' u' n \ j' - u | j' h' U <h' pZh | U p Ů b | Z †

x n \ h' f † † e n' U <h' e' p' w'

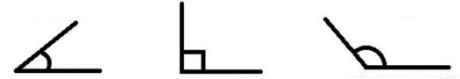


Uv -U |b|oZ -dix |W| h' h' d' p' \*\$, 120°, |W| h' |Z -pZ h' |U p' b' |x' }u |Y| o' |A' |x' E' n' U' p' c' †  
 }u |e' U' d' -j' |E' d' U' d' -f' r' |e' o' | \ |M' h' |B' o' }u |Y| o' |A' |U' h' |pZ h' |U' p' b' |x' 'x' |W| h' ' |Ü' |y' h' f' c' †  
 }u |e' U' d' -j' |E' d' U' d' -f' 'E' B' o' h' U' d' -j' ' +'%\$' d' †+. %

**E B' o' h' U' d' -j' "**

.....U' h' |Z' † U' |p' x' n' \ h' 'X' c' †

'I' |v' :-U' h' |Z' † }u' j' u' g' ' U' |p' x' n' \ h' 'f' c' † u' 'Ü' |Z' 'I' p' l' p' ' f' h' |E' h' ' \ 'u' h' |d' f' ' }u' j' u' g' ' u' o' d' n' |B' o' † }h' n' |A' ' y' c' |p' † U' h' ' S' s' V' c' † u' x' n' \ h' 'X' c' †



U' d' -Z' † }u' p' c' :-U' h' |Ü' |}u' j' u' g' ' U' |p' |Z' † u' W' U' p' c' F' }c' E' e' Ä' x' n' \ h' 'f' c' † Ü' |Z' 'I' p' l' p' ' U' h' n' |j' U' |h' |Ü' |Z' -pZ h' |U' p' c' † d' x' Z' 'Ü' |Z' † }u' j' u' g' ' |j' o' \ W' x' n' \ h' 'f' c' † o' |x' | - }f' r' |e' o' | E' B' o' h' U' d' -j' 'E' U' |B' -n' E' |O' a' h' U' d' -j' |E' d' U' d' -f' U' |s' \ }u' |U' ' h' 'X' c' †



}u |e' U' d' -j' |E' d' U' d' -f' 'E' B' o' h' U' d' -j' ' :-7.20 †.22

E' B' o' h' ' }h' i' j' d' -j' U' d' -Z' |' j' |' 'x' |C' g' -' 4n' r' m' d' m' |E' d' U' ' U' e' j' h' |m' |W-1' ..... (E<sup>h</sup>)

**n' e' o' n' |j' h' 'ö' d' p' "**

	Ä1	Ä2	- 3	- (
m' }d' Z' -n' s' ' U' e' j' h'   -p' w' ' U' h' , U' h'  Z' † U'  p' u' ' U' h' ' pZ h'  e' o'  j' d' -x' n' \ h' ' pZ h'  U' p' c' †	p' w'  V' e' , p' w'   }U' p' c' x' n'  C' p' p' w'  p' w'  V' e' [ f' h' p' w'  , u' p' w'  o'  E' Z' U' ' S' s' V' d' k' "	m' }d' Z' -n' s' ' U' e' j' h'  Ü'  Z' 'I' p' l' p' ' U' h' n'  j' U'  Ü'  x' y'  c' o'  h'  U' h' ' pZ d' k' u' ' U'  p' ' S' s' V' d' k' .	U' h' -e'  p' w' ' pZ h' ' U' h'  Z' -pZ h'  U' p' d' k' u' ' U'  p' ' E' Z' U' ' S' s' V' d' k' "	m' }d' Z' -n' s' ' U' e' j' h'   \  c' d' k' u' ' U' h' n'  j' U' , U' u'  p' n' \ j' -o'  Ü'  x' y'  c' o'  h' † U' c'  Ü'  y' -U' h'  Z' -E' Z' U' ' pZ h'  U' p' d' k' .

### EBooh }hij Ê ~ "µ,

EBooh }hij Ê ~ "µ | \ }UQ|U h|Q|F g|p} U < |Z -pZh |u'uWU pc U pc} U < |Q| f'h U h|Z h\ n|j }fr Ex d|}dx p|U h S s V d|oç†

### EBooh }hij Ê Z ~io| ~F }c 'nyÛ:

..... }u |Yo|A|fh|h \ uh|d| uc |o|x nQ|Q U < |Z† U |pu'Û|Z|WegnÄ u|j h'x <a}uÛ|x'x y|Q|U ~ pd|d. o|}hij Ê -EBooh|h }u |e } U < |x Q|d } U < |Z† mVzr C|IÇ-zj |o|o|Z| p|l p' U |pF }c WegnÄ g|j|p|W|cd|x <auÛ|x }v U|d|d.

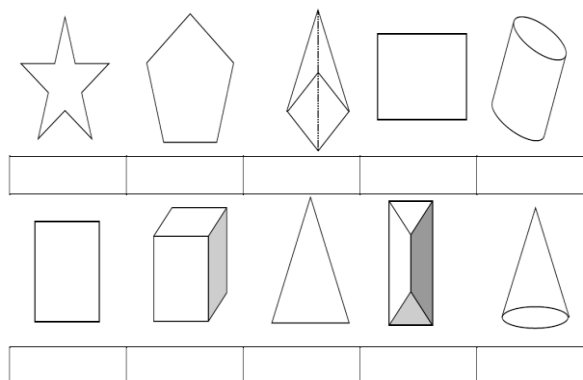
### EBooh 'Uj ~ "%

..... }fr Q|F Uj ~ngf U < d~x ndr 'h|y~ h'fvÄç†

I v. x ndr |Uj Z|EeÄ|x z } U < |Z|EeÄ n\h Xç†

### Uj Z }uupc:

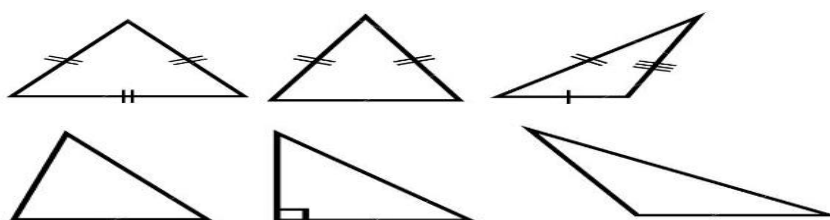
}u |Yo|A|x nd|r |Uj -S s V Û|Z†  
 'x n\ |uc }u'Û|F g|p|x ndr |Uj Z|EeÄ  
 'u } U < |Z|EeÄ n\h x |Qç† } U < |Q|  
 \ r |Uj f'x uç c x Qç|u|j h'Uj -U h  
 'x n\ |uc†  
 }u |e Uj -j }Q|U|d r Uj ~ :8.1 d†, .4



### EBooh 'Uj ~ "'&

..... n|Q|l | \ Z h\ n|j U h'uWU pc U p

I v. } U < |Q|l | \ ,F }c U h|Q|F g|p}'uWU pc U pd|oç†



**Ujd-Z#uupc:**

.....}u |Yo|A|d|Ü|d|f } U < |Ü| | \ ,dx Z U h |Z|h\ n|j U pÜ|Z|k n\ h fç#u' Üb|F g|p| U < |Z| U |p|u|Ü|Z| n|r |uh|Ü| | | dZ#uupc }v È U |Ü-x n\ |uh| x |Üç| }u |e Ujd-j }Üd|d|f Ujd~ :8.5 d#,.8

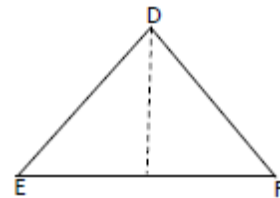
**EBooh Ujd~ "-"**

.....n-x |Üç|dx #U p

I v. ....} U < |Z|h|B|p|v|f|f| C|k|dx Z |Z|-o| | | d|x n\ h Xç#

**Ujd-Z#uupc:**

.....}u |Yo|A|}f|r|ç|o|} U < |d|f|n|B|j| Ç; S s V Üb|x x |Üh|Ü|F g|p|} Ç|h|n|B|p|v|f|f| C|k U |b|Ü|x r |uh|Ü|Z|-Z-x n\ h fç#o| | | dÜ|



Ujd-}v È U |h| }u |Yo|A|ah|U h Xç# F uí oU } } U |c|-h|Üv|A|u' <Ük|y|h|x|Z|h| U pç#

}u |e Ujd-j }Üd|d|f Ujd~ :8.9 d#,.10

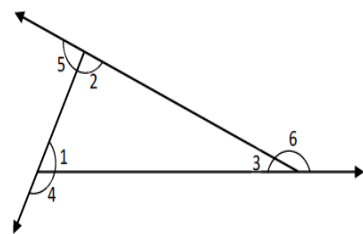
**EBooh Ujd~ "'(**

.....} U < |Ü|U|h|Z|h|j|h|u|}uv|v| | \ |ç|h|Xç#

I v. } U < |Z|Ü|E|gn|Ä|x Z |Ü|F g|p|d|x nÜ| |W|ç|d|k|a|}u|Ü|x }u |e |d|o|p|y|ç|ç#

**Ujd-Z#uupc:**

.....}u |Yo|A|}f|r|ç|o|}Z |d|f|U|h|Z|h\ n|j U h|d| |j|ç|A|p|Ü|x x |Üç|Ü|b|h|ç|p|Ü|U|h|Ü| F g|p|}f|r|ç# } U < |Z|Ü|E|gn|Ä|ç|h|Xç#|x| | -n|f|d|U|p|ç#



- \*} U < |Ü|U|h|Z|-Ü,c|l|p|A| %\$ "Ex d#
- \*} U < |Z| | U|h|y|} U < |Ü|F|ç|p|} U|h|G|d|U|Z|x n|h|Ex d#.

o|x Üg|d|E|í|o U|h|v|ç|h|h|n|ç|o|n|ç|Ü|r|ç# W|ç|d|-ä|k n\ h Xç#üx Üg|d|Ujd~ }u |Yo|A|ah|U h Xç#

}u |e Ujd-j }Üd|d|f Ujd~ :8.11 d#,.13

**EBooh }hij È-Ujd-x Üg|d|j | '-} U < u } U < |Z|Ü|E|gn|Ä|W-1|Ç|É|'+u|ç**



nêonlj h'õdp

	À1	À2	- 3	- ('
l \ ;UQ  U h  Ò F g p } U h  Z ~pZ h  u'uWU pc U pc ‡} U <c   Ò f h'U h  Z ‡ n\ n  j }fr ‡ Ex d  }dx p   U h 'S s V d   o ‡	} U <c  Z ‡ }v p }  €ž l \ ž U h 'S s V d <.	} U <c  Z ‡ mWu Üb  Z   p   p U  p S s V d <.	} U <c  Z ‡ mW }u }ug U  p'u W €gnÄ Gdp   x n \  uh x  d <.	} U <c  Z ‡ U  p'u W €gnÄ EZU \  c h 'Üb  F g  jod x n ð   x <a }ud <.

### EBooh 'hij E~ 'μ-

EBooh "'hij E~: x ps U h žj pU U h žx Ći h 1 \ | o | W e g n | o | F g | p t u W U p c U p c t u ' O U | U h | Z ~ | U G n d } f r - E x d | Ć d p U h | Z E Z U n | j h S s V c †

#### EBooh "'hij E~Z~io| ~F }c 'nyŪ:

..... }u | e | o | EBooh 'hij E~ o | EBooh | h o p } f r o | F U d - n g - f } u } u g | p t w ž p t w o F } c U h ' S s V d - f " d x z ū b | U h | n g - f r X e h ž U | U h ž } u v | r U h F } c ' x p s U h ' o | Z } h p - E c U h u W U p c U p d - f " d x z f h } h \ u h | n b o } U h | Z h y Ū ' S s V h ū b | Z } j o \ h U p d - f ž ū b | Z 1 p l p o | | d Z - f | y p c } h c \ X a o | s | d - f ' d h ' U | o | b o } h n | Ć y c | p t U h ' F } c } v a l o | o | x e o | b o } F } c f p u \ | | Ć U p ū b | o | } u } u g } o e d - d } h n | Ć y c | p t U h ' S s V ū b | x } u | e | d o | p y d - f .

### EBooh 'Ud~ "'%

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I v . f h } h \ u h | n b o } F j c j | y c | o | F U d - d ' d o | p y c | o | U h | Z † U | p S s V d | o e † U d - Z } u p c .

..... } v E U | b - U h | o | } u } u g F U d b | Z - j e p | u r < U h U h ' U | p | Z - h | u F } c E o ' u | b - n | c } h | u F } c ' n } r } y ū b | Z x n \ h x | o c †

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U d - Z } u p c .

' O U U h f † h ū b | U h | Z | j p U U h ' S s V ū b | x x n \ | u c } e v | U | p } p U U h ' y c ū b | x | - j } y r | U h f c } f } e p | U h ' v < g ū b | Z x | o h U | o A h X e } U | y - U h | Z - } Z †

f t h ũ b | d f U h | Z f p U U h S s V h d f ũ b | d f j p U U h | ũ | \ a o | \ € u h j r j y ũ b | x .  
} u | Ÿ o | Ā | n f d U p c †

j p U U h | ũ | Z | d f j p U | æ | \ | W - o | i o U h | Z - j U ũ d h f U h j r j y ũ b | x x | ũ c †  
} u | e U d - j Ÿ ũ U d f U d ~ : : - . 3 d † - . 6

E Booh U d ~ " "

..... ũ | Z j | Ÿ d f h U h

I v . f h Ÿ h \ e h | n b Ÿ h Ÿ } U | c - f b s h F r † † U h S s V d | o c † ũ | f | y p c † | ũ c †  
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..... } u | Ÿ g x Ÿ i h U h F g | j p d Z f t h ũ b | Z † | U h S s V h y o } ũ ũ | h | y - o | Z †  
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E Booh U d ~ " (

..... p t w e U h | ũ | \ a o | S s V c †

I v . ..... f h Ÿ h \ e h | d u | j p c | o | j U p c | Ÿ b Ÿ x c | p t U h ũ ũ | ũ | U h \ a o |  
f U h z i | U h t S s V h h | u † | ũ d | o c †

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..... f h Ÿ h \ e h | n b Ÿ j | p c | o | U | y - j U p c | ũ | ũ E j j o Z o | | p t f | f | . m | \ ~  
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E Booh U d ~ " )

..... } v p x } u U h | Z | j j o Z o F j c } v p x } u U h S s V "

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} v p x } u U h v < g ũ b | x } u | Ÿ o | Ā | n f d U p c †

} u | e U d - j Ÿ ũ U d f U d ~ : : - % d † - %

E Booh " } h i j Ê ~ x C Ÿ d j | - j | - j } p t W F j c U h f | Ÿ o Ê | Ÿ + u ~ . m | W Ÿ %

nêonlj h'õdp

	À1	À2	- 3	- ('
x ps 'U kh žj pU U kh žx Ćih'   \ ; o   Wēgn   F g   ptuWU pc U pc tu'OU   U kh   Z - } U Ćnd } fr - Ex d   Ćdp U kh   Z E ZU nlj h' S s V c †	} fr Ćol F U Ć - ng † U kh   Z † U   p S s V d < u h   u } fr } yd < "	} fr Ćol U kh   Ćg † j pU , x Ćih ž   ' U kh EZU v < gh U   bd < .	} fr Ćol   F U Ć - ng †     ' U kh ž ptw' U kh \ < a o   F } c } v p } u U kh ' EZU ' S s V d < .	f h Ć h \ u h   n   b † u   j p c   o   U   y -   j U p c   Ć - o   f - U h   ū   n   b †   f m u c   o   p t w' U kh \ < a o   , } v p } u ' U kh S s V d < u o d o j   o o   Ć   F g   p t v < g d < "

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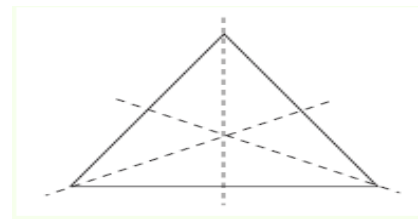
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### EBooh 'Ujd ~µ'%

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Ujd }juupc :-

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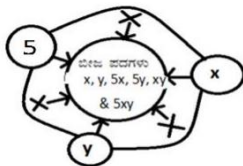
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$\begin{matrix} -3x & 5y & -3x^2 \\ 0.7y & z & x & -7 \\ \underline{xy} & \frac{1}{3}x & \text{○} & -\frac{2}{5}x^2 \\ x^2y & mx & 1.3x & \end{matrix}$	$\begin{matrix} 10 & & 5y & -3x^2 \\ 0.7y & z & x & \\ \frac{1}{3}x & \text{○} & \frac{1}{4}y & -\frac{2}{5}x^2 \\ x^2y & & 1.3x & \frac{1}{4} \end{matrix}$
$\begin{matrix} -3x & 5y & & \\ 0.7y & z & x & -7 \\ \underline{xy} & \text{○} & \frac{1}{4}y & \\ x^2y & mx & 1.3x & \frac{1}{4} \end{matrix}$	$\begin{matrix} 10 & -3x & 5y & \\ & z & x & -7 \\ \underline{xy} & \text{○} & & -\frac{2}{5}x^2 \\ x^2y & mx & 1.3x & \frac{1}{4} \end{matrix}$

ju le U d j } d U t d r U d ~ " . . . . . % 7 d # 1.8

### E Booh 'U d ~ μ)

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..... } r e o | I } \ U p | v - d r I } \ U j f x C o | } r } y U b | x x | O c t O U I } \ U j f  
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 Ex t u W U p c U p U b | x x n \ h f t # f h I } \ U j f | O | n b t M E U | p E e u | m W U | p } o h t  
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**b) 12xy + 3yz + 8xy + 30 yz**

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} Z à y | | p x a } u d | d j c ' x W j | d f v } j a f U x n o o | W c d t u } Y o A - E e A c A n \ h '  
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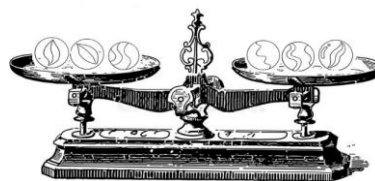
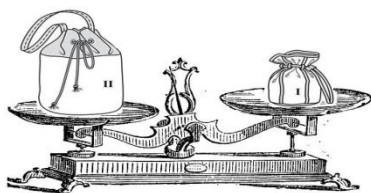
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j u | e x n - U p c | Z | E e A n \ h X d f " j u } Y o A | x n z } u w n F } c r y | h - n c } Z à y u | j h "  
j u j u g X \_ U f t h ũ | n g f x n - U p c t < g ũ | x r | u c F } c j u } Y o A - x n - U p c y < o } U ũ |  
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j u | e y o d j o d U t d f U d ~ n | o - 12.112.2

E Booh 'Ufd~ ' - 2

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Ufd ~juupc.

.....I pZ x }u |e x n-U pc }fêo|hOp'Û|d f EZU d|y† h x <a}ud|dž c u| o j ~ x W}fêo|x 'Û|d f x yx CGS s V Û|d U n-j ad|d.Ev |u\$ -[ <\_† <\_† x W }u |YoÅ n p }h n|Å U h o|Ufd~ |† o|h U p'Û|x 'x n\ |uc † }u |e yöd j }dU†d f Ufd~ n|O '-12.B:12.4

E Booh 'Ufd~ ' - 3

.....x n|h X\_U |nB†k n|h X\_U }ns }uc }UQ|'x n|h X\_U 'U n-U pc †

I v.:

.....x n|h X\_U |nB†k n|h X\_U }ns }uêo|x }UQ|'x n|h X\_U 'u\ |U†êo|x |pr † X\_U ' x n|h Ex d|d'y†k n\ |uh f††b|Z F g|p†Zr j f |d U†r † ~d p d f v <gh U |bd|o††

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E Booh 'Ufd~ ' - 4

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I v.:

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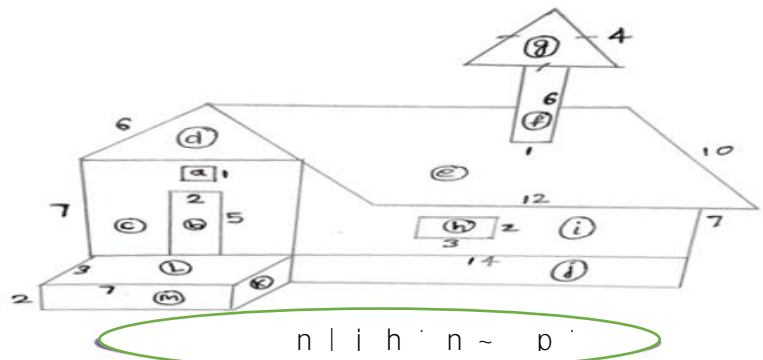
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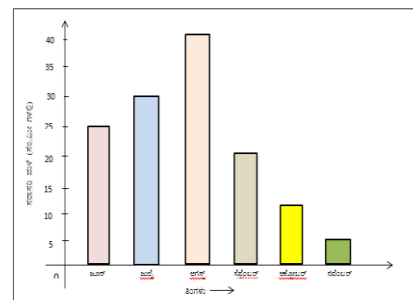
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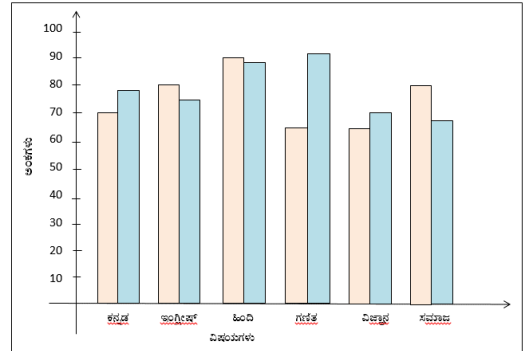
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