

**МИНИСТЕРСТВО ПРОСВЕЩЕНИЯ РОССИЙСКОЙ ФЕДЕРАЦИИ**

Министерство образования Тульской области

Общественная организация Тульский областной еврейский благотворительный центр  
«ХАСДЭЙ НЭШАМА» /»МИЛОСЕРДИЕ»/



Директор  
Т.В. Оводова

Приказ № 41-а

от «31»августа» 2022 г.

**РАБОЧАЯ ПРОГРАММА  
ОСНОВНОГО ОБЩЕГО ОБРАЗОВАНИЯ**

**Учебного предмета  
«МАТЕМАТИКА»**  
(для 5 класса образовательных организаций)

IHYKGBL?EVGAYIBKD:

H;S:Y O:J:DL?JBKLB M Q?;GH=H?>F?L: F:L?F:LBD:

JZ[hqZy ijh]jZffZ ih fZI\_fZlbd\_ ^ey h[mqZxsboky deZkkh\ jZajZ[  
]hkm^Zjkl\\_ggh]h h[jZah\ZI\_evgh]h klZg^ZjIZ hkgh\gh]h h[s\_]h h[jZ  
kh\j\_f\_gguo fbjh\uo lj\_[h\Zgbc ij\_^ty\ey\_fuo d fZI\_fZlBq\_kdhfm h[  
jhkkbckdh]h h[jZah\Zgby dhIhju\_ h[\_ki\_qb\Zxl h\ez^\_gb\_ dexq\\_u  
khklZ\eyxsbfh hkgh\m ^ey g\_ij\_ju\gh]h h[jZah\Zgby b kZfhjZa\blby  
h[s\_dmevlmjgh]h ebqghklgh]h b ihagZ\ZI\_evgh]h jZa\blby h[mqZxs  
mqI\_gu b^\_b b iheh`\_gby Dhgp\_ipbb jZa\blby fZI\_fZlBq\_kdh]h h[jZ  
N\_^\_jZpbb < wihom pbnjh\hc ljZgknjhjZpbb \k\_o kn\_j q\_h\_e\_h\_q\_kdl  
klZlv h[jZah\Zgguf kh\j\_f\_gguf q\_eh\\_dhf [\_a [Zah\hc fZI\_fZlBq\_kd  
fZI\_fZlbdZ kem`bl hihjguf ij^f\_lhf ^ey bamq\_gby kf`\_guo ^bkpbie  
g\_h[oh^bfhklvx klZgh\blky g\_ij\_ju\gh\_ h[jZah\Zgby hcqI\_Zahj\h[m\_l ihe  
h[s\_h[jZah\ZI\_evgh]h h[dh f\qb\_ko fZI\_fZlBq\_kdhc

Wih h[mkeh\e\_gh l\_f qlh \ gZrb ^gb jZklzl qbkeh ijhn\_kkbc k\ya  
ijbf\_g\_gb\_f fZI\_fZlBdb b \ kn\_j\_ wdghghfddb b \ [bag\_k\_^B` \ \og  
]mfZgblZjguo kn\_jZo LZdbf h[jZahf djm] rdhevghbdh\ ^ey dhIhjuo  
agZqbfiij^f\_lhf jZkrbjy\_lky

IjZdlBq\_kdZy ihe\_aghklv fZI\_fZlBdb h[mkeh\e\_gZ l\_f qlh \_z ij^f  
nmg^Zf\_gIzevgu\_ kljmdlmju gZr\_]h\_ggijZ\_njhkujZgdhlebq\_kl\\_ggu\_ h  
ijhkl\_crbo mk\Zb\Z\_fuo \ g\_ihkj^akl\\_gghf hiul\_ ^h ^hklZlhqgh ke  
jZa\blby gZmqguo b ijbdeZ^guo b^\_c ;\_a dhgdj\_lguo fZI\_fZlBq\_kd  
ijbgpbih\ mkljhckl\Z bZgbiyeh\_njh\_f\_gghc l\_ogbdb \hkijbylb\_ b bgl\_j  
jZaghh[jZaghc khpbZevghc wdghghfbq\_kdhc iheblBq\_kdhc bgnhjZ  
ih\k^g\_\gZy ijZdlBq\_kdZy ^\_yl\_evghklv DZ`^hfm q\_eh\\_dm \ k\h\_  
jZkqzlu b khklZ\eylw ZgeZdhj\_blf b ijbfgylv nhjfmeu \ez^\_lv ijZdlB  
]\_hf\_ljbq\_kdbo baf\_j\_gbc b ihkljh\_gbc qbIZlv bgnhjZpbx ij^klZ  
^bZ]jZff b ]jZnbdh\ `blv \ mkeh\byo g\_hij^\_ezgghklb b ihgbfZlv \  
kemqZckgh[u kb

H^gh\j\_f\_ggh k jZkrbj\_gb\_f kn\_j ijbfg\_gby fZI\_fZlBdb \ kh\j\_f\_gg  
\Z`guf klZgh\blky fZI\_fZlBq\_kdbc klbev fure\_gby ijhy\eyxsbcy \ h  
gZ\udZo < ijhp\_kk\_ bamq\_gby fZI\_fZlBdb \ Zjk\_gZeq\_jehzfhdZb\_f\_lh/  
\_kl\_kl\\_gguf h[jZahf \dexqZxlky bg^mdpby b ^\_mdpby h[h[s\_gb\_  
kbgI\_a deZkkbnbdZpby b kbkl\_fZlbaZpby Z[kljZ]bjh\Zgb\_ b ZgZel  
mfhaZdexq\_gbc ijZ\beZ bo dhgkljmbjh\Zgby jZkdlBq\_kdh\ZxklfhoZgbaf e  
kihkh[kl\mxl \ujZ[hld\_ mf\_gby nhjfmebjh\Zlv h[hkgh\u\Zlv b ^hdZa  
jZa\b\Zxl eh]bq\_kdh\_ fure\_gb\_ < ^msZy jhev ijbGZ^e`bl fZI\_fZlB  
Ze]hjblfbq\_kdhc dhfihg\_glu fure\_gby b \hkiBZgbitb raZ^Zgguf\_Zel]hj  
kh\\_jr\_gkl\h\Zlv ba\\_klgu\_ b dhgkljmbjh\Zlv gh\u^2 k kigh ph\_kmqj\_[g  
^\_yl\_evghklb gZ mjhdZojZa\bfZlBklb lZd`\_ l\hj\_q\_kdZy b ijbdeZ^gZy  
fure\_gby

H[mq\_gb\_ fZI\_fZlbd\_ ^ZzjZah\bfZlghklv h[mqZxsboky lhqgmX jZpbg  
bgnhjZlB\g\_mqmf\_gbl[bjZgZb[h\_eh^oh^yslaudh\kbf\hebq\_kjZn\_bq\_kdb\_  
kj^kl^ZyujZ`\_g\_bm`^\_gbcZ\_bey^gh]h bo ij^klZ\ez\_gby

G\_h[oh^bdhfihg\_gghf\_s\_dmevlmjgh\j\_f\_ggh\_e dh\Zg\_bey\_ h[kys\_agZdhfkl\h

k f\_lh^Zfb ihagZgby ^\_ckl\bl\_evghklb ij\_^klZ\e\_gb\_ h ij\_^f\_l\_ b f  
hl f\_lh^h\ ^jm]bo \_kl\_kl\\_gguo b ]mfZgblZjguo gZmd h[ hkh[\_ggkh  
j\_r\_gby gZmqguo b ijbdeZ^guo aZ^Zq LZdbf h[jZahf fZI\_fZlBq\_kd  
\deZ^nhjfbjh\Zgb\_ h[s\_c dmevlmjZ

Bamq\_gb\_ fZI\_fZlBdb lZd`\_ kihkh[kl\m\_l wkl\_lBq\_kdhfm \hkiblZgb  
djZkhlu b bays\_kl\Z fZI\_fZlBdb^kqdb j\hkijbylBx ]\_hf\_ljbq\_kdbo nhj  
b^\_lBff\_ljbb

P?E B B A M Q ? G B Y Q ? ; G H = D H M J K :

ljbhjb\_lguf\_beyfd[mq\_gZly\_fZlBdb\_deZklyeyxiky

2 ijh^he`\_gb\_ nhjfbjh\Zgby hkgh\guo fZI\_fZlBq\_kdbo ihgyIBC qb  
]\_hf\_ljbq\_kdZy nB[mkjZ\_qb\Zxsbo ij\_\_fkl\\_ggkhlv b i\_jki\_dlb\ghkl  
h[jZah\Zg]mqZxsboky

2 jZa\bIbgl\_ee\_dlmZevhgqokkbbkh[ghkl[mqZxsbidkaygZ\ZI\_evghc  
Zdlb\ghlkk\_e^h\ZI\_mvk\_gbbog\_l\_j\_kkZa\_mq\_gZlx\_fZlBdb

2 ih^\_\^\_g]mqZxsboky gZ ^hkImighf ^ey gbo mjh\g\_ d hkhagZgb  
bhdjm`Zxs\_]h fbjZ

2 nhjfbjh\Zgb\_ nmgdpbhgZevghc fZI\_fZlBq\_kdhc ]jZfhlgkhklb mf  
fZI\_fZlBq\_kdb\_ h[t\_dlu \ j\_Zevguo `bag\_gguo kblmZpbyo ijbfg  
j\_r\_gby ijZdh]hg]bh\Zgguo aZ^Zq bg\_ljij\_lbjh\Zlv ihemq\_ggu\_  
hp\_gb\ZevgZ khh\ijZlBq\_kdhc kblmZpbb

Hkgh\gu\_ ebgb kh^\_j`Zgby dmjkZ fZlZfZlBdb\_kdZk]\_hf\_ljbq  
dhlhju\_ jZa\b\Zxlky iZdZèZevgkhhl\lkl\bb k kh[kl\\_gghc eh]bdhc  
g\_aZ\bkbfb h^gZ hl ^jm]hc Z \ l\_kghf dhglZdl\_ b \aZbfh^\_ckl\bb  
agZdhfkl\we\_f\_gZf]b[juh]kZI\_evghc klZlBklbdb

Bamq\_gb\_ Zjbnf\_lBq\_kdh]h fZI\_jbZkZfZlBdb\_kdZk]\_hf\_ljbq  
gZlmjZevguo qbkeZo ihemq\_gguo \ gZqZevghc rdhe\_ ljb wlf kh\  
l\_ogbdb b nhjfbjh\Zgb\_ gh\uo l\_hj\_lBq\_kdbo agZgbc khq\_lZ\_lky k  
dmevlmju \ qZklghklbi]hkl[mq\_gZ]bfzfZf ijbdb^db b hp\_gdb j\_amevl  
\uqbke\_gbc

>jm]hc djmiguc [ehd \ kh^\_j`Zgbb Zjb^nf\_w]lBq\_kdZk]\_hf\_ljbq  
h[udgh\\_gguo b ^\_kylbqguo ^jh[\_c hlg\_k\_gh d deZkkm Wlh i\_j\U  
ijhbko h]Zk]hkhkgh\gufb\_yf]hgylbylBfuljb wlfjZkkfh]j\_gb\_  
h[udgh\\_gguo ^jh[\_c \ iheghf h[tzf\_ ij\_^r\_kl\m\_l bamq\_gbx ^\_kylb  
p\_e\_khh[jZagh k lhqdb aj\_gby eh]bdb baeh`\_gby qbkeh\hc ebgb  
^\_kylbqgufb ^jh[yfb [fhk]gh\Zlv m`\_ ba\\_klgufb Ze]hjb]fZfb \uiheg\_gk  
h[udgh\\_ggufb ^jh[yfb AgZdhfkl\h k ^\_kylbqgufb ^jh[yfb jZkrbjbl \  
h[mqZxsfbky ijbdeZ^gh]h ijbfg\_gby gh\hc aZibkb ijb bamq\_gbb ^  
ijZdlBq\_kdZk]h^h\Zgbb

ljb h[mq\_gbb j\_r\_gbx l\_dklh\uo aZ^Zq \ deZkk\_ bkihevamxiky Z  
L\_dklh\U\_ aZ^Zqb j\_rZ\_fu\_ ijb h]jZ[hld\_ \uqbkebl\_evguo gZ\udh\  
aZ^Zqb ke^mxsbo \b^h\ gZ^ZqZ gZk\lB`gZ ihdmidb gZ jZ[hlm b  
gZ ijhp\_glu gZ hlg hr\_gby b ijhihjpbb Djhf\_lh]h h[mqZxs\_bky ag  
aZ^Zq i\_j\_[hjhf \hafh`guo \ZjbZglh\ mqZlky jZ[h]Zlv k bgnhjZpb\_  
lZ[e]bpe b Z]jZff

< ljb\_f\_jghc jZ[hq\_c ijh]jZff\_ ij\_^mkfhlj\_gh nhjfbjh\Zgb\_ ijhi\_^\_\lb  
ij\_^klZ\e\_gbc ;md\Z dZd kbf\he g\_dhlhjh]h qbkeZ \ aZ\bkbfbhklb h  
\h^blky ihkl\_i\_ggh ;md\\_ggZy kbf\hebdZ rbj\kd\_h]h Kie vaZmb\_k byhiljs\_b  
ml\\_j`^\_gbc b ij\_^eh`\_gbc nhjfme \ qZklghklb ^ey \uqbke\_gby ]\_h  
dZq\_k@aZf\_klbl\_ey^a qbkeZ

< dmjk\_ ©FZI\_fZlbdb^a deZkkZ ij\_^klZ\e\_gZ gZ]ey^gZy ]\_hf\_ljby  
h[jZagh]h fure\_gb\_jZgkjhkggh]h \hh[jZ`\_gby bah[jZabl\_evguo mf\_gb  
bamq\_gbb ]\_hf\_ljbb dhlhjuc hkms\_kil\Zy\blkykdZfgZ]ey^gh hibjZ\_lky  
gZ]ey^gdhZagh\_fure\_gb\_h[mqZxsboky ;hevrZy jhev hl\h^blky ijZd  
hiulmkiwqbf\_glm fh^\_ebjh\Zgbx H[mqZxsb\_ky agZdhfylky k ]\_hf\_l  
iehkdhklb b \ ijhkljZgkl\\_ k bo ijhkl\_crbfb dhgnb]mjZpbyfb mqZlk  
g\_ebgh\Zgghc b de\_lqZlhc [mfZ]\_ jZkkfZljb\Zxl bo ijhkl\_crb\_k\ho  
gZ]ey^ghc ]\_hf\_ljbb agZgby ihemq\_ggu\_ h[mqZxsbfbyky \ gZqZevg  
jZkrbjyxlky

F?KLHMQ?;GH=DMJK<MQ?;GHFE:G?

Kh]eZkgh mq\_[ghfm ieZgm \ deZkk\_ bamqZ\_lky bgl\_]jbjh\Zgguc  
\dexqZ\_l Zjbnf\_lbq\_kdbc fZI\_jbZe b gZ]ey^gmx ]\_hf\_ljbx Z lZd`\_  
Ze]\_[ju Mq\_[guc ieZg gZ bamq\_gb\_ fZI\_fZlbdb \ deZkk\_ hl\h^bl  
g\_^\_e\*\_]h mq\_[guo qZkh\

KH>?J@:G B?Q?;GH=DMJK:F:L?F:LBD:

GZImjZevg b k e b Z g m e v

GZImjZevgh\_ qbkeh Jy^ gZImjZevguo qbk\_e Qbkeh Bah[jZ`\_g  
dhhj^bgZlghc qbkeh\hc iyyfhc lhabpbhggZy kbkl\_fZ kqbke\_gby  
g\_ihabpbhgghc kbkl\_fu kqbke\_gbyfZ>k k y k k e q g Z y k k j Z \ g \_ g b \_ g Z I m j Z  
kjZ\g\_gb\_ gZImjZevguo qbk\_e k gmezf Kihkh[u kjZ\g\_gby Hdjm]e  
gZImjZevg b k e b Z g m e v q b k e h ` \_ g b b q b l Z g d Z \_ c k l \ b [ j Z l g h e h ` \_ g b x  
Mfgh`\_gb\_ gZImjZevg b k e b Z g m e v q b k e h ` \_ g b b q b l Z g d Z \_ c k l \ b [ j Z l g h e h ` \_ g b x  
h[jZlgh\_ mfgh`\_gbx Dhfihg\_glu ^\_ckl\bc klyav f`^m gbfb ljh\j  
Zjbnf\_lbq\_kdh]h ^\_ckl\by l\_j\_f\_klbl\_evgh\_ b khq\_lZI\_evgh\_ k\hck  
mfgh`\_gby jZklie v g b b k \ h c k l \ h a Z d h g m f g h ` \_ g b y B k i h e v a h \ Z g b \_  
g\_ba\\_klgh]h dhfihg\_gIZ b aZibkb k\hckl\ Zjbnf\_lbq\_kdbo ^\_ckl\bc  
jZaeh`\_gb\_ gZ fgh`bl\_eb ljhklu\_ b khklZ\gu\_ qbkeZ ljbagZ g b ^ \_ e  
khklZld k f l \_ i \_ g g Z I m j Z e v i g d Z a Z I \_ e Z i f b k b k e Z b ^ k m f f u Z a j y ^ g k u e Z ] Z \_ f u o  
Qbkeh\h\_ \ujZ`\_gb\_ <uqbke\_gb\_ agZq\_gbc qbkeh\uo \ujZ`\_gbc ih  
Bkihevah\Z g b u q b k e \_ g b j y o f \_ k l b l \_ e b g h p h l Z I \_ e k g h k l h a Z d h g k r e h ` \_ g b y  
mfgh`\_g b y k i j \_ ^ \_ e b l \_ e v g h ] h k \ h c k l \ Z m f g h ` \_ g b y

>jh[b

lj^klZ\e\_gb\_ h ^jh[b dZd kihkh[\_ aZibkb qZklb \\_ebqbg u H[udgh  
g\_ijZ\bevgu\_ ^jh[b Kf\_rZggZy ^jh[v ij^klZ\e\_gbg\_kjZ\rvZevghcc ^] hf  
b \u^\_e\_gb\_ p\_ehc qZklb qbkeZ ba g\_ijZ\bevghc ^jh[b Bah[jZ`\_gb  
iyyfhcHkgh\g h h c k l \ h j h [ b k h d j Z s \_ g j h [ \_ c j b \ \_ ^ \_ g b j h [ d g h \ h f a n g Z f \_ g Z I \_ e x  
KjZ\g\_gb\_ ^jh[\_c Keh`\_gb\_ b \uqblZ g b \_ b ^ h [ e \_ c g b M f g j h [ - b [ j Z b g Z u b f g h  
^jh[b GZoh`^\_gb\_ qZklb p\_eh]h b p\_eh]h ih\_]h qZklb >\_kylbqgZ  
^\_kylbqg hc ^jh[b \ \b^\_ h[udgh\\_gghc Bah[jZ`\_gb\_ ^\_kylbqguo ^jh  
iyyfhcKjZ\g\_g b k y l b q g j h d [ \_ c j b n f \_ l b q \_ k d b c k l \ b y \_ k y l b q g u j f b [ y f b  
Hdjm]e ^g b k y l b q g j h d [ \_ c

J\_r\_gb\_dklh\ a z ^ Z q

J\_r\_gb\_ l\_dklh\uo aZ^Zq Zjbnf\_lbq\_kdbf kihkh[hf J\_r\_gb\_ eh]bq  
i\_j\_[hjhf \k\_o \hafh`guo \ZjbZglh\ Bkiheva h Z Z g b Z [ e i p b j b r k g b f b a Z r  
aZ^Zq kh^\_j`Zsbo aZ\bkbfbklb klyau\Zxs\_b\_ \\_ebqbg u kdhjhklv \  
dhebq\_kl\h klhbfbklv ?^bgbp baf\_j\_gby fZkku h[tzfZ p\_gu jZ  
Klyav`^m^bgbp Z b f \_ j \_ g b Z y ^ h c e b q b g u r \_ g b k g h \ g a u Z ^ g z j h [ b  
lj^klZ\e\_g b g u b b ^ l Z [ e b p l h e [ q Z l b z ] j Z f f

GZ]ey^gZhf\_ljby

GZ]ey^gu\_ ij^klZ\e\_gby h nb]mjZo gZ iehkdhklb lhqdZ iyyfZy h  
fgh]hm]he h g b r d ` g h k l v d j m ] M ] h e l j y f h c h k l j u c l m i h c b j Z a \ z j g m l  
f\_ljbq\_kdb\_ ^\_bgbp u ^ebgu >ebgZ ehfZghc i\_jbf\_lj fgh]hm]hevgb  
m]eh\ k ihfhsvx ljZgkihjlbjZ GZ]ey^gu\_ ij^klZ\e\_gby h h e v g b d o g  
iyyfhm]hevghd d\Z^jZI lj\_m]hevghd h jZ\\_gkl\\_ nb]mj Bah[jZ`\_g  
de\_lqZlhc [mfZ]\_ lhkljh\_gb\_ dhgnb]mjZpbc ba qZkl\_c iyyfhc hdjm  
de\_lqZl h e Z ] B k i h e v a h \ Z g h c k l \ h j h g m ] e h j y f h m ] h e v g b d Z j Z l e h s Z ^ v

ijyfhm]hevghdZ b fgh]hm]hevghdh\ khklZ\e\_gguo ba ijyfhm]hevghd  
bah[jZ`zgguo gZ de\_lqZlhc [mfZ]\_ ?^bgbpu baf\_j\_gby iehsZ^b GZ  
ijkljZgkl\\_gguo nb]mjZo ijyfhm]hevghd^ dm[ fgh]h]jZggbdb Ba  
ijkl\_crbo fgh]h]jZggbdh\ JZa\zjldb dm[Z b iZjZee\_e\_ibi\_^Z Kha  
ba [mfZ]b ijh\hehdb ieZklbebgZ b ^j H[tzf ijyfhm]hevgh]h iZjZ  
baf\_j\_gbyzfZ

I E : G B J M ? F U H ; J : A H < : L ? E V G W ? A M E V L : L U

E B Q G H K L G W ? A M E V L : L U

E b q g h k l g u a m e v l h z k l \ h \_ g j h y j z f f u m q \_ [ g h j ] h ^ f \_ l o f z i \_ f z i b o d z z d i \_ j b a m x l k y  
l z l j b h l b q \_ k \ h k i b l z g b \_  
i j h y \ e \_ g b \_ f b g l \_ j \_ k z d i j h r e h f m b g z k l h y s \_ f m j h k k b c k d g b r f z g l b f z l b  
d ^ h k l b ` \_ g b y f j h k k b c k d b o f z i \_ f z i b d h \ b j h k k b c k d h c f z i \_ f z i b q \_ k d h c  
^ h k l b ` \_ g b y f m ] b o g z m d z o b i k b d j e z z o ^ g u o  
= j z ` ^ z g k b h m o h \ g j h z \ k l \ \_ g g h k i b l z g b \_  
j h l h \ g h k l v x d \ u i h e g \_ g b x h [ y a z g g h k l z e b j a z p h z o g b g i z i t j z \ i j \_ ^ k l z \ e \_  
f z i \_ f z i b q \_ k d b o h k g h \ z o n m g d p b h g b j h \ z g b y j z a e b q g u o k l j m d l m j y \  
h [ s \_ k l \ z u [ h j u h i j h k u b i j  
j h l h \ g h k l v x d h [ k m ` ^ \_ g b x w l b q \_ k d b o i j h [ e \_ f k \ y a z g g u o k i j z d l b q \_  
^ h k l b ` \_ g b z c d b k h a g z g z ` g h k l b j z e v g h b q \_ k i d b o p b i h ^ \_ y l \_ e v g m k l z g h ] h  
l j m ^ h \ h k i b l z g b \_  
m k l z g h \ d h c g z z d l b \ g h \_ m q z k l b \_ \ j \_ r \_ g b b i j z d l b q \_ k d b o a z ^ z q f z  
h k h a g z g b \_ f \ z ` g h k l b f z i \_ f z i b q \_ k d h ] h h [ j z a h \ z o g a b y o g z e y j m l k y i ` r g g h c \ k  
i j h n \_ k k b h g z e v g h c ^ \_ y l \_ e v g h k l b b j z a \ b l b \_ f g \_ h [ o h ^ b f u o m f \_ g b c h  
i h k l j h \_ g b \_ f b g ^ b \ b ^ m z e v g h c l j z \_ d l h j b b h [ j z a h \ z g b y b ` b a g \_ g g u o i  
b g l \_ j \_ b h h [ s \_ k l \ \_ g g u o i h l j \_ [ g h k l \_ c  
W k l \_ l b q \_ k h k i b l z g b \_  
k i h k [ g h k l v w f h p b h g z e v g h k l m l b q \_ k d h k i j b y l b z i \_ f z i b q \_ k d h c l h a z ^ z q  
j \_ r \_ g b j z k k m ` ^ \_ g b c g b b ^ \_ f z i \_ f z i b q \_ k d h d h g h f \_ j g b k b m k k l \ \_  
P \_ g g h k g z m q g i h a g z g b y  
h j b \_ g l z p b \_ c \ ^ \_ y l \_ e v g h k l b g z k h \ j \_ f \_ g j m k l z b e l \_ g f m c g z m d g u o g u o  
a z d h g h f \_ j g j h z a l y o l o y e h \ i j l z j h ^ b h [ s \_ k l \ z g b f z g b f z f \_ f z i b q \_ g z m d z d  
k n \_ j u q \_ e h \ \_ q \_ k d h c ^ \_ y l \_ e v g h k l b w l z i h \ \_ z j z a \ b l b y b a g z q b f h k l b  
h \ e z ^ \_ g b \_ f y a u d h f f z i \_ f z i b d b b f e z l m z l b q d z d l k g \_ d m l \ h f i h a g z g b y f b  
h \ e z ^ \_ g i b h k l \_ c r b g z \ u d z f b o k e \_ ^ h \ z i \_ e v k d h c ^ \_ y l \_ e v g h k l b  
N b a b q \_ k d h k i b l z g b h j f b j h \ z g b m e v l m a j u h j h \ b y f h p b h g z e v g z ] h i h e m q b y  
j h l h \ g h k l v x i j b f \_ g y l v f z i \_ f z i b q \_ k d b \_ a g z g b y \ y b g l \_ \ \_ g z o y k a \ h j h h h a  
h [ j z a z ` b a g b a ^ h j h \ h \_ i b l z g b \_ k [ z e z g k b j h \ z g g u c j \_ ` b f a z g y l b c b  
z d l b \ g h k l v k n h j f b j h \ z g g h k l v x g z \ u d z j \_ n e \_ d k b b i j b a g z g b \_ f k \ h \_  
i j z \ z j m ] h ] h q \_ e h \ \_ d z  
W d h e h ] b q \ k d h b l z g b \_  
h j b \_ g l z p b \_ c g z i j b f \_ g \_ g b \_ f z i \_ f z i b q \_ k d b o a g z g b c ^ e y j \_ r \_ g b y a z  
h d j m ` z x s \_ c k j \_ ^ u i e z g b j h \ z g b y i h k l m i d h \ b h p \_ g d b b o \ h a f h ` g u o i  
k j \_ ^ h k h a g z g b h [ z e v g h z j z d l w j z h e h ] b q i j k d b o b i m \_ d o j \_ r \_ g b y  
E b q g h k l g u a m e v l z h [ u \_ k i \_ q b \ z x z b z i l z p b k m q z x s \_ j h k a y \_ g y x s b f k y  
m k e h \ b k y f p b z e v g i j b j h ^ g h k j \_ ^ u  
j h l h \ g h k l v x d ^ \_ c k l \ b y f \ m k e h \ b y o g \_ h i j \_ ^ \_ e z g g h k l b i h \ u r \_ g b x m  
q \_ j \_ a i j z d l b q \_ k d m x ^ \_ y l f e v g k r e k l m f \ \_ g b \_ m q b l v k y m ^ j m ] b o e x ^ \_ c i  
k h \ f \_ k l g h \_ g l \_ e v g g h k l b \_ a g z z b y d b d h f i \_ l \_ g p a b u l z j m ] b o  
g \_ h [ o h ^ b f h k l v x \ n h j f b j h \ z g b b g h \ u o a g z g b c \ l h f q b k e \_ n h j f m e b  
] b i h l \_ a u h [ d h z o b y \ e \_ g b y o \ l h f q b k e \_ j z g \_ \_ g \_ b a \ \_ k l g u o h k h a g  
a g z g b d h f i \_ l \_ g l g h k l \_ c i e k z g b j h z z l b l b \_

kihkh[ghklvx hkhagZ\Zlv klj\_kkh\mx kblmZpbx \hkijbgbfZlv klj\_kk  
lj\_[mxsbc dhg[hjijj\_dlbjh\Zlv ijbgbfZ\_fu\_j\_r\_gby b ^\_ckl\by nhjfm  
jbkdb ihke\_^kl\by nhjfbjh\Zlv

F?L:IJ?>F?LGUJ?AMEVL:LU

F\_IZij\_^f\_lgu\_j\_amevlZlu hk\h\_gby ijh]jZffu mq\_[gh]h ij\_^f\_IZ ©  
oZjZdl\_jbamxky hregZb\g\_b\_ZéivhgagZ\ZI\_ev\_gufckl\byfb mgb\\_jkZevguf  
dhffmgbdZlb\gufckl\byfb mgb\\_jkZe\_jg]uf\_bylb\gufckl\byfb

1) Mgb\\_jkZeivhgagZ\ZI\_evgufckl\by h[\_ki\_qb\Zxl nhjfbjh\Zgb\_[Zah\uo  
ijhp\_kkh\ h[mqZxsbooky hk\h\_gb\_f\_lh^h]hihlagZgkjpfh\_gjmg\_bzxsh]bq\_  
bkke\_^h\ZI\_bivkjZtpdc mjZ[g\_bZlk bgnhjfZpb\_c

;Zah\ue\_h]bq\_kd\_bckl\by

2 \uy\eylv b oZjZdl\_jbah\Zlv kms\_kl\\_gg\_u\_ ijbagZdb fZI\_fZlbq\_k  
hlghr\_gfb\_c^m ihgylybyfb

2 nhjfmebjh\Zlv hij\_ih\_gelygbymklZgZ\eb\Zlv kms\_kl\\_gguc ijbagZ  
hkgh\Zgby[h[s\_gbykjZ\g\_g]jby\_jbb ijh\h^B\_g]Z]hbaZ

2 \hkijbgbfZlv nhjfmebjh\Zlv b ij\_h[jZah\u\Zlv km`^\_gby ml\\_j^  
hljbpZI\_ev\_gubgbqgu\_ qZk]sgu\_ b

2 mkeh\guyeylvZI\_fZlbq\_aZdhghf\_jglaZlbfhk\by]h]b\hj\_d]mZdlZO  
^ZggugZ[ex^\_gbyo b ml\\_j`^\_gbyo

2 ij\_^eZ]Z]bl\_j]byuy\e\_gabydhghf\_jgh]h]b\hj\_qbc

2 ^\_eZlv \u\h^u k bkihevah\Zgb\_faZdhgh\eh]bdb ^\_^mdlb\guo  
mfhaZdexqm]h]baZdexq\_gbc ih ZgZeh]bb

2 jZa[bjZlv ^hdZaZI\_evkl\Z fZI\_fZlbq\_kdbo ml\\_j`^\_gbc i]yfu\_ b  
kZfhklhyl\_evgh g\_keh`gu\_ ^hdZaZI\_evkl\Z fZI\_fZlbq\_kdbo nZdlh  
ijb\h^b]jbf\_ju b dhgljijbf\_ju

2 h[kgh\u\Zlv kh[kl\\_gg\_u\_jZkkm`^\_gby \u[bjZlv kihkh[j\_r\_gby  
kjZ\gb\Zlv g\_kdhevhd \ZjbZgh\j\_r\_gby \u[bjZlv gZb[he\_\_ih^c  
kZfhklhyl\_euvgle\_gguo djbl\_jb\_\

;Zah\ub\_kke\_^h\ZI\_e^v\_kckb\by

2 bkihevah\Zlv]hkdZbkk\_e^h\ZI\_e^v\_kckb]mf]lga\_gZgby

2 nhjfmebjh\Zlv \hijhku nbdkbjmxsb\_ ijh]b\hj\_qb\_ ijh[e\_fm\_kZ  
mklZgZ\eb\_kZl]vfh^Zlggh\_ nhjfb]j]h]h\Zlvam

2 Zj]mf\_g]bjh\Zlv]h]habp]fg\_gb\_

2 ijh\h^blv ih kZfhklhyl\_evgh khklZ\keegguumwedZg]jbf\_gl g\_[hev  
bkke\_^h\Zgb\_ ih mklZgh\e\_gbx hkh[\_gghkl\_c fZI\_fZlbq\_kdh]h h[  
f`^rk]h[hc

2 kZfhklhyl\_evgh nhjfmebjh\Zlv h[h[s\_gby b \u\h^u ih j\_amevlZ  
gZ[ex^\_gby b]g]be^h]p\_Zgb\Zlv ^hklh\\_jghklv ihemq\_gguo j\_amevl  
h[h[s\_gbc ijh]ghabjh\Zlv \hafh`gh\_jZa\blb\_ ijhp\_kkZ ZIZd`\_\  
\_]h]Za\blb]h\uo mkeh\byo



JZ[hllZbgnhjfZpb\_c

2 \uy\eylv g\_^hklZlhqghklv b ba[ulhqgZhgwdggghjfZpb\_b fuo ^ey j\_ aZ^Zqb

2 \u[bjZlv ZgZebabjh\Zlv kbkl\_fZlbabjh\Zlv b bgl\_jij\_lbjh\Zlv l\b^hb nhjf ij\_^klZ\le\_gby

2 \u[bjZlv nhjfm ij\_^klZ\le\_gby bgnhjfZpbb b beexklbjh\Zlv j\_rZ ^bZ]jZffZbghc ]pZmc b bo dhf[bgZpbyfb

2 hp\_gb\Zlv gZ^z`ghklv bgnhjfZpbb ih djbl\_jbyf ij\_^eh`\_gguf m knhjfmebjh\ZlgZghfklhyl\_evgh

2) Mgb\\_jkZedvfm mgb dZlb\guckl\by h[\_ki\_qb\Zxl knhjfbjh\Zgghklv kh gZ\udm\mqZxsboky

H[s\_gb\_

2 \hkijbgbfZhvjhjfmebjh kZlv^\_gkylhl\\_lklkmlkeh\by pbe yfd s\_gby

2 ykgh lhqgh ]jZfhlg h \ujZ`Zlv k\hx lhqdm aj\_gby \ mklguo b i ihykg\_gby ih oh^m j\_r\_gby aZ^Zqb dhff\_glbjh\Zlv ihemq\_gguc j aZ^Z\Zlyh khui ih kms\_kl\m h[km`^Z\_fhc l\_fu ijh[e\_fu j\_rZ\_fhc aZ b^\_gZp\_e\_ggu\_ gZrihgbbkyd

2 khikhklZ\eylv k\hb km`^\_gby k km`^\_gbyfb ^jm]bo mqZklgbdh\ jZaebpbkoh^kl\h ihabpbc

2 \dhjj\_dlgthgf\_nhjfm\_ebjh\Zavgh]eZkbyh ajZ`\_gby

2 ij\_^klZ\eylamevlijZru\_gayZ^Zwldki\_jbf\_bgkZe\_^h\ZjghbydIZ

2 kZfhklhyl\_evgh \u[bjZlv nhjfZl \uklmie\_gby k mqzlhf aZ^Zq ij\_Zm^blhjbb

Khlijm^gbq\_kl\h

2 ihgbfZlv b bkihevah\Zlv idhbZmgsgkclZ bg^b\b^mZevghc jZ[hlu i mq\_[gfZd\_fZlbq\_kdbo aZ^Zq

2 ijbgbfZlv p\_ev kh\f\_klg hc ^\_yl\_evghklb ieZgbjh\Zlv hj]ZgbaZ jZkij\_^\_dplvjZ[h^h]h\Zjb\Zh[km`^Zjlvp\_lkj\_ameyZZ hlu

2 h[h[sZlv fg\_gklyevdbo ex^\_c mqZkl\h\Zlv \ ]jmiih\uo nhjfZo jZ h[f\_gg\_gbyfb fha]h\u\_rlmjfu b ^j

2 \uihegyk\hxqZk]Z[hldbhhj^bgbjhk\Zlv\_ckl\byjm]b fpe\_gZdfbfZg^u

2 hp\_gb\Zlv dZq\_kl\h k\h\_]h \deZ^Z \ h[sb & ri h j f m e l b j h h Z d j g u f j b y f mqZklgbdazZbfh^\_ckl\by

3) Mgb\\_jkZejvfm eylv\guckl\by h[\_ki\_qb\Zxl nhjfbjh\Zgb\_ kfukeh\uo `bag\_gguzaudenbqghklb

KZfhhj]ZgbaZpby

2 kZfhklhyl\_khvgkZ\eylvZge]hbjlfr\_gayZ^Zpbe\_b]mqZklvu[bjZkvhkh[ j\_r\_gby k mqzlhf bf\_xsboky j\_kmjkh\ b kh[kl\\_gguo \hafh`ghkl\_c dhjj\_dlbjh\Zj]vZglu j\_r\_rmqzlkf gh\hc bgnhjfZpbb

KZfhdhgljhev

2 \eZ^\_lv kihkh[Zfb kZfhijh\\_jdb kZfhdhgljhey\_rjhgb\_ykkZ b j\_ame  
fZI\_fZlBq\_&ZHZqb

2 ij\_^b^\_lv ljm^ghklb dhlhju\_ fh]ml \hagbdgmlv ijb j\_r\_gbb aZ  
^\_yl\_evghZklvghgh\ub[klhyI\_e\_vZl^\_g\_gub[hduy\e\_g\_gjmo^ghkl\_c

2 hp\_gb\Zlv khhl\\_lkl\b\_ j\_amevlZIZe^\_ygh\_evg\_hkbbilmklZh\byf h  
ijbqbg ^hklb`\_gby beb g^hklb`\_gby p\_eb gZoh^blv hrb[dm ^Z  
hiulm

IJ?>F?LGU?AMEVL:LU

QbkeZuqbke\_gby

IhgbfZlv b ijZ\bevgh mihlj\_[eylv l\_jfbgu k\yaZgggu\_h[ku dgZhmjZevfgu  
b^\_kylbqgufb ^jh[yfb

KjZ\gb\Zhvihjy^hqbZlImjZevguk\_eZ\gb\Ziljhkl\_crke mqZfyodgh\\_gg\_u\_  
^jh[b^\_kylbqgu\_ ^jh[b

KhhIghkblv lhqdm gZ dhhj^bgZlghc qbkeh\hc ijyfhc k khhl\\_lkl\n  
gZlImjZevguk\_eZ lhqdmZhvijgZgZlghc qbje\hchc

<uihegylv Zjbnf\_lBq\_kdb\_ ^\_ckl\by k gZlImjZevgufb qbkeZfb k h[u  
ijhkl\_crke mqZyo

<uihegyjh\\_jdirjdbdb^j\_mamevlZqZke\_gbc  
Hdjml]egZlImjZevgu\_ qbkeZ

J\_r\_gb\_dklh\&Zq

J\_rZlv l\_dklh\u\_ aZ^Zqb Zjbnf\_lBq\_kdbf kihkh[hf b k ihfhsvx hj]Z  
i\_j\_[h]Z\_o \hafh`guo \ZjbZgh\

J\_rZlaZ^Zqb^\_j`ZsabZ\bkbfhkllyba\Zxs\_bebqb\_gdhjhkljv\_fyjZkklhygb\_  
p\_gZhebq\_kl\h kllhbhklv

Bkihevah\ZlvdaZibkko\_fuZ[ebphu[hagZqijdyr\_gbabZ^Zq

Ihevah\Zlvklyh\gufbbgbbpZab\_j\_gpygZkkjZkklhygyf\_gbdhjhklb  
\ujZ`Zhv^gb^bgbbpuebqbguj^ajm]b\_

Ba\e\_dZlv ZgZebabjh\Zlv hp\_gb\Zlv bgmkjZlZkZebpj^gZkkeh egZl  
^bZ]jZfbgl\_jij\_lbjh\ZlvklZ\e\_gZgubkihevah\Zvgujbj\_r\_gbabZ^Zq

GZ]ey^gZhf\_ljby

Ihevah\Z]vky\_ljbq\_kichgfyblbyfbqdiZyfZyhlj\_aednq]hfeh]hm]hevghd  
hdjm`ghdjm]

Ijb\h^bljybf\_ju h[t\_dlh\hdjm`Zxs\_]hfbjZ bf\_xsbo nhjfm bamq\_ggu  
nb]mj

Bkihevah\Zlv l\_jfbgheh]bx k\yaZggmx k m]eZfb \\_jrbgZ klhjhgz  
\\_jrbgZlhjhgz ^bZkhhgZjenv`ghkZVbmk ^bZfgllj

Bah[jZ`Zlv bgamq]ghf\_ljbq\_kdb\_ nb]mju gZ g\_ebgh\Zgghc b de\_lqZ  
pbjdmteyebg\_cdb

GZoh^blv ^ebgu hlj\_adh\ g\_ihkj^kl\\_gguf baf\_j\_gb\_f k ihfhsvx e  
aZ^Zgggkkljhbhdjm`ghkZVZgggh]h jZ^bmkZ

BkihevahkZhvcklkZhjhgm]ehjyfhm]hevghdZjZVZybaikhkljh\_glvuqbke\_gby

iehsZ^bb\_jbf\_ljZ

<uqbkey\_ljbf\_ljehsZ^Z^jZiljyfhm]hevgnbqzkhkIZ\e\_φguo

ijyfhm]hevgbldhfqbke\_b]mbah[jZ`zggZde\_lqZ[lmZ]\_

lhevah\Zlvky hkgh\gufb f\_ljbq\_kdbfb \_^bgbpZfb baf\_j\_gby ^ebgu  
\_^bgbp\_uebqbg\_u qj\_m\_l\_a\_

JZkihagZ^Z^Zee\_e\_e\_i\_b\_m\_p^kihevahl\Zfvbghheh]b\_xrbgZ\_[jhjZgbaf\_j\_gby  
gZoh^b\_baf\_j\_g\_ZyZee\_e\_e\_i\_b\_m^Z

<uqbkey[vzfdm[ZjZee\_e\_e\_i\_b\_h\_a^Z^Zgφaff\_j\_gb\_hhevah\ZlvbgbpZfb  
baf\_j\_g\_h\_yzfZ

J\_rZlg\_keh`gaZ^Zgbaf\_j\_g\_b\_h\_f\_ljbq\_k\_d\_b\_bq\_bjgZdlbq\_kkdbmZpbyo

i	GZbf_gh\Zgb_ jZa^_ethl_f ijh]jZffu	Dhebq_kdZrkh\			>ZIZ bamq_g y	<b^u_yI_evghklb	<b^u nhjfu dhgljhe y	We_dljhggu_ pbnjh\u_ h[jZah\ZI_evgumjku
		\k_] h	dhgljhevg _jZ[hlu	ijZdlbq_k _jZ[hlu				
JZaM_@ZImjZevgbkeZ_ckl\kyZImjZevgqbk_eZfb								
1.1.	>_kylbqkZkl_fZ kqbke_gby	1	0	0	01.09.202 2	AgZdhfbkbyhjbjZca\blZjbnf_lbdb	Mklguc c hijhk	https://resh.edu.ru/subject/lesson/7721/start/2836/
1.2.	JyZImjZevguc qbk_e	1	0	0	02.09.202 2	QbIZlv aZibku \Zlv kjZ\gb\ZImjZevguc_eiZ_^eZ]Bhv\km^Zlv kihkh[muihjy^hqb\Ztlb.ye	Mklguc c hijhk	https://resh.edu.ru/subject/lesson/7719/start/301/
1.3.	GZImjZevguc	1	0	0	05.09.202 2	QbIZlv aZibku \Zlv kjZ\gb\ZImjZevguc_eiZ_^eZ]Bhv\km^Zlv kihkh[muihjy^hqb\Ztlb.ye	Mklguc c hijhk	https://resh.edu.ru/subject/lesson/7719/start/301/
1.4.	Qbk0.h	1	0	0	06.09.202 2	Bkke_^h\Zlv k\hckl\Z gZImjZevgh]h jy^Zbk01ijbkeh`_gbb mfg h`_gbb	Mklguc c hijhk	https://resh.edu.ru/subject/lesson/7719/start/301/
1.5.	GZImjZevgu _qbkeZ_gZ dhjh^bgZlg hdjyfhc	3	0	0	07.09.202 2 08.09.202 2	Bah[jZ`Zlhvhj^bgZligymfx hlf_qZd bkeZqdZgZdhjh^bgZlg yhf d c gZoh^blhvhj^bgZhd b	IjZdlbq_k yjZ[hIZ	https://resh.edu.ru/subject/lesson/7719/start/301/
1.6.	KjZ\g_gb_ hdjm]e_gb_ gZImjZevguo qbk_e	4	1	0	12.09.202 2 15.09.202 2	QbIZlv aZibku \Zlv kjZ\gb\ZImjZevguc_eiZ_^eZ]Bhv\km^Zlv kihkh[muihjy^hqb\Ztlb.ye Bkiheva h\jZlv ehndjm]e_ggZlmjZevguko_e ;	Mklguc hijhk lbkvf_ggu dhgljhev Dhgljhev jZ[hIZ L_klbjh\Z _	https://edu.skysmart.ru/
1.7.	:jbnf_lbq_kdb_ ^_ckl\by gZImjZevgufb qbkeZfb	4	0	0	16.09.202 2 21.09.202 2	<uihegyZjbnf_lbq_kdbkl\byZImjZevgufb qbkeZfbqbkelylv agZq_gby qbkeh\uo \ujZ kdh[dZfb k d[h]hd	lbkvf_ggu cdhgljhev	https://resh.edu.ru/subject/12/5/
1.8.	K\hckl\Zmeijb keh`_gbb b mfg h`_gbb k\hckl\Z^bgbp ijbmfg h`_gbb	1	0	0	22.09.202 2	Bkke_^h\Zlv k\hckl\Z gZImjZevgh]h jy^Zbk01ijbkeh`_gbb mfg h`_gbb	Mklguc c hijhk	https://resh.edu.ru/subject/12/5/

1.9.	l_j_f_klbi_evgl _khq_lzl_evgl k\hckl\Z keh`_gby b mfg h`_gby jZkij^_ebl_ev _k\hckl\h mfg h`_gby	2	1	0	23.09.2022 26.09.2022	BkihevahijZ\wqbk_e_gby_of_klbi_ebgh_khq_lzl_ek\gk\k\kzh`_gbyfgh`_gby; jZkij^_ebl_evgk\mfg h`_gby NhjfmebjhZj\bf_gyljZ\beZ_h[jZah\Zgby qbkeh\wqZ`_g\zhkghk\hckZjbnf_lbq_kdbd ^_ckl\bc ;	lbkvf_ggu cdhgljhev Dhgljhev jZ[hIZ	<a href="https://resh.edu.ru/subject/12/5/">https://resh.edu.ru/subject/12/5/</a>
1.10	>_ebl_beb djZlg\qbkEZ jZaeh`_gb_ qbkeZ gZ fgh`bl_eb	4	0	0	27.09.2022 30.09.2022	Nhjfmebjh\Zlv_bijbf_gylv_ijZ\beZ ij_h[jZah\Zgbyeh\wqZ`_g\zhkgh\ k\hckZjbnf_lbq_k\g\k\l\bc NhjfmebjhZj\jv^_e_gbybl_bedjZlg h]h gZau\Zlvebl_bedjZlg\qbkEZkihagZ\jZhlwub khklZ\gu_qbkeZ nhjfmebjh\Zlv_bijbf_gh ^_ebfhlg]Z; gZau\Zlvebl_bedjZlg\qbkEZkihagZ\jZhlwub khklZ\gu_qbkeZ nhjfmebjh\Zlv_bijbf_gh ^_ebfhlg]Z; gZau\Zlvebl_bedjZlg\qbkEZkihagZ\jZhlwub khklZ\gu_qbkeZ nhjfmebjh\Zlv_bijbf_gh ^_ebfhlg]Z; Ebl_jZlmjZ ijbf_gylv Ze]hbjlf jZaeh`_gby qbkeZ fgh`bl_evgZoh^bkwZldb`_e_gtgy_ihegh_ qZklgh_ ;	L_klbjh\Z ;	<a href="https://edu.skysmart.ru/">https://edu.skysmart.ru/</a>
1.11	>_e_gkh_klZldhf	5	1	0	03.10.2022 07.10.2022	NhjfmebjhZj\jv^_e_gbybl_bedjZlg h]h gZau\Zlvebl_bedjZlg\qbkEZkihagZ\jZhlwub khklZ\gu_qbkeZ nhjfmebjh\Zlv_bijbf_gh ^_ebfhlg]Z; gZau\Zlvebl_bedjZlg\qbkEZkihagZ\jZhlwub khklZ\gu_qbkeZ nhjfmebjh\Zlv_bijbf_gh ^_ebfhlg]Z; gZau\Zlvebl_bedjZlg\qbkEZkihagZ\jZhlwub khklZ\gu_qbkeZ nhjfmebjh\Zlv_bijbf_gh ^_ebfhlg]Z; Ebl_jZlmjZ ijbf_gylv Ze]hbjlf jZaeh`_gby qbkeZ fgh`bl_evgZoh^bkwZldb`_e_gtgy_ihegh_ qZklgh_ ;	Mklguc hijhk lbkvf_ggu dhgljhev Dhgljhev jZ[hIZ L_klbjh\Z -	<a href="https://resh.edu.ru/subject/lesson/7719/start/301/">https://resh.edu.ru/subject/lesson/7719/start/301/</a>
1.12	ljhklubkhklZ\g qbkeZ	2	0	0	10.10.2022 11.10.2022	jZkihagZ\jZhlwubkhklZ\gubkeZ	Mklguc hijhk	<a href="https://resh.edu.ru/subject/12/5/">https://resh.edu.ru/subject/12/5/</a>

1.13	ljbagZd_bebfhkl gZ,5, 10,3,9.	5	1	0	12.10.202 2 18.10.202 2	Nhfmebjh\Zjv^_e_g_beybl_bedyZlg]h gZau\Zlvebl_bedyZlg_u_bkejZkihagZljZhlwub_ khklZ\gu_qbkeZ nhfmebjh\Zlv b ijb_f_ ^_ebfhlg]Z; gZau\Zlvebl_bedyZlg_u_bkejZkihagZljZhlwub_ khklZ\gu_qbkeZ nhfmebjh\Zlv b ijb_f_ ^_ebfhlg]Z; gZau\Zlvebl_bedyZlg_u_bkejZkihagZljZhlwub_ khklZ\gu_qbkeZ nhfmebjh\Zlv b ijb_f_ ^_ebfhlg]Z; Ebl_jZlmjZ ijbf_gylv Ze]hjbif jZaehgZgbjy kq b ke Z fgh`bl_egZoh^bkwZl d b^_e_gtgy_ihegh_ qZklgh_	Mklguc hijk lbkvf_ggu cdhgljhev Dhgljhev yjZ[hIZ >bdIZgl	<a href="https://resh.edu.ru/subject/lesson/7719/start/301/">https://resh.edu.ru/subject/lesson/7719/start/301/</a>
1.14	Kl_i_gv gZlmjZevguf ihdZaZl_e_f	2	0	0	19.10.202 2 20.10.202 2	AZibku\Zj hba\^_g_b^_ kl_i_gv Z kv_i_gb bkihevah\Zlv l_jfbgheh]bx hkg h\ZjhdZaZl_ev \uqbke gZq_glyi_g_c	lbkvf_ggu cdhgljhev	<a href="https://resh.edu.ru/subject/12/5/">https://resh.edu.ru/subject/12/5/</a>

1.15.	Qbkeh\u_ \ujZ`_g ihjy^Hdckl\bc	2	0	0	21.10.2022 24.10.2022	<uihegyZjbnf_l bq_ kdbk\l\bgZlmjZevgufb qbkeZfb \uqbke\lgZq_g blyeh\lujZ`_g kb kdh[dZfb_ k dh[h d <uihegyj\bd b^b hmp_g algnZq_g bkeh\lujZ`_g bc ij_^eZ]Zl jbf_gyl jbfzfu jh\ _j d\bu qbke_gbc ;	L_kl bj h\Zg	<a href="https://edu.skysmart.ru/">https://edu.skysmart.ru/</a>
1.16.	J_r_gb_ l_dklh\u aZ^Zq\kgZ Zjbnf_l bq_kdb_ ^_ckl\bgZ`_b`_gb_ bihdmidb	5	0	0	25.10.2022 31.10.2022	J_rZlv l_dklh\u_ aZ^Zqb Zjbnf_l bq_kdbf k bkihevah\Zlv aZ\b_k b^m k e b qbgZfb k dhjklv jZkklhygb_gZhebq_kk\lmbf hklvj ZgZebabj\Z hkfukeb\Zlv l_dkl aZ^Zqb i_j_nhjfmebjh\Z ba\edZlv g_h[oh^bfu_ ^Zgg_u_ mklZgZ\eb f_`^m_ ebqbg Zfjh b lev]bq_ kpl m k q jZk km` b c g	l b k v f _ g g u d h g l j h e v	<a href="https://resh.edu.ru/subject/lesson/7719/start/3162">https://resh.edu.ru/subject/lesson/7719/start/3162</a>
Blh]hhjZa^_em		43						
JZa^2_ @Z]ey^gZhf_ljbf b g b g Zehkd h k l b								
2.1.	LhqdiZyfZyhj_ahd emq	1	0	0	01.11.2022	JZkihagZgZl yj l_`Zo j b k m g d Z o h i b k u \ Z l v b k i e v a m j y b g h e h ] b x b b a h [ j Z ` X i k f h s v x _ j l z ` g u o b g k l j m f _ g l l m q d m i j y f m x h l j _ a h d e m q m ] h e e h f Z g m x h d j m ` g h k l v J Z k i h a g Z \ Z l v i j b \ h ^ b i j b f _ j u h [ t _ d l h \ Z e v g h j h Z b f _ x s b o h j f r b a m q _ g r g u ] o m j h p _ g b \ Z b b g _ c g Z a f _ j u ;	Mklguc hijhk	<a href="https://resh.edu.ru/subject/archived/12/5/">https://resh.edu.ru/subject/archived/12/5/</a>

2.2.	EhfZgZy	1	0	0	02.11.2022	<p>JZkihagZ\Zl\vj\`Zo  j b k m g d Z o  h i b k u \ Z l v  b k i e v a m j f b g h e h ] b x  b b a h [ j Z ` Z i l r f h s v x _ j l z ` g u o  b g k l j m f _ g l l m q d m  i j y f m x  h l j _ a h d  e m q  m ] h e  e h f Z g m x  h d j m ` g h k l v  J Z k i h a g Z \ Z l v  i j b \ h ^ b l j b f _ j u h [ t _ d l h \ Z e v g h j ] h z  b f _ x s b o h j f r b a m q _ g r g u ] o m j  h p _ g b \ Z e v b g _ c g i z a f _ j u  &lt; u q b k e y l v ^ e b g u h l j _ a d h \  e h f Z g u o</p>	; Mklguc hijhk	https://resh.edu.ru/subject/lesson/7719/start/3162
2.3.	<p>Baf_j_g\ebgu  hlj_ad\Zlj_bq_kdb_  _ ^ b g b p a f _ j _ g b y  ^ e b g u</p>	1	0	0	03.11.2022	<p>Bkihevah\ebgu\cd\jZgkihjl\Z\bgkljmf_gby  ihkljh_gby b baf_j_gby baf_jylv ^ebgm hl  \_ebqbng]ne\Zljhbhlvj_a\Z^Zgg\ebgu  m]he  aZ^Zggghc  \_ebqbbgldeZ^u\pZl\jvdmeqZfguhlj_adb  kljhbllvdjm`gh&amp;Z^Zggiz]NbmkZ  Bah[jZ`Zlhvgnb]mjZp\fb_ljbq_k\Z\p\ahlj_adh\  hdjm`ghkl_c  b\Zklg\Z_ebgh\Zbg\clqZ\m\Z]ij_^eZ]Zlv  hibku\Zl\k[km`^Zi\hkh[u  Ze]hjb\fbkljh_gby  JZkihagZ\Za\h[jZ`Z\Z_ebgh\Zbg\clqZ\m\Z]_  ijyfhc  hkljuc  lmihc  jZa\zjgmthje\kj\gb\Zhl]veu  &lt;uqbkeylv ^ebgu hlj_adh\  ehfZguo</p>	ljZdlbq_kc jZ[hIZ	https://resh.edu.ru/subject/lesson/7719/start/3162



2.4.	H d j m ` g h k l d j m ]	1	0	0	04.11.2022	<p>J Z k i h a g Z q Z l v j l _ ` Z o  j b k m g d Z o  h i b k u \ Z l v  b k i h e v a m j f b g h e h ] b x  b b a h [ j Z ` Z i k f h s v x _ j l z ` g u o  b g k l j m f _ g l l h q d m  i j y f m x  h l j _ a h d  e m q  m ] h e  e h f Z g m x  h d j m ` g h k l v  J Z k i h a g Z \ Z l v  i j b \ h ^ b i j b f _ j u h [ t _ d l h _ Z e v g h i j h Z  b f _ x s b o h j f r b a m q _ g r g u ] o m j  h p _ g b \ Z t e v b g _ c g Z a f _ j u  B a h [ j Z ` Z i h v g n b ] m j Z p l e f o _ l j b q _ k o b p o b j a l j _ a d h \  h d j m ` g h k l _ c  b a q Z k l g Z _ e b g h \ Z b g d e c l q Z [ h o d Z ] i j _ ^ e Z ] Z l v  h i b k u \ Z l v [ k m ` ^ Z i h k h [ u  Z e ] h j b l f b k l j h _ g b y  ;</p>	l b k v f _ g g u d h g l j h e v	<a href="https://resh.edu.ru/subject/lesson/7719/start/3162">https://resh.edu.ru/subject/lesson/7719/start/3162</a>
2.5.	l j Z d l b q _ k j Z Z l Z © l h k l j h _ g b _ m a h p Z a h d j m ` g h k l _ c a	1	0	0	07.11.2022	<p>J Z k i h a g Z q Z l v j l _ ` Z o  j b k m g d Z o  h i b k u \ Z l v  b k i h e v a m j f b g h e h ] b x  b b a h [ j Z ` Z i k f h s v x _ j l z ` g u o  b g k l j m f _ g l l h q d m  i j y f m x  h l j _ a h d  e m q  m ] h e  e h f Z g m x  h d j m ` g h k l v  J Z k i h a g Z \ Z l v  i j b \ h ^ b i j b f _ j u h [ t _ d l h _ Z e v g h i j h Z  b f _ x s b o h j f r b a m q _ g r g u ] o m j  h p _ g b \ Z t e v b g _ c g Z a f _ j u  B a h [ j Z ` Z i h v g n b ] m j Z p l e f o _ l j b q _ k o b p o b j a l j _ a d h \  h d j m ` g h k l _ c  b a q Z k l g Z _ e b g h \ Z b g d e c l q Z [ h o d Z ] i j _ ^ e Z ] Z l v  h i b k u \ Z l v [ k m ` ^ Z i h k h [ u  Z e ] h j b l f b k l j h _ g b y  ;</p>	l j Z d l b q _ k d j Z [ h l Z	<a href="https://resh.edu.ru/subject/lesson/7719/start/3162">https://resh.edu.ru/subject/lesson/7719/start/3162</a>

2.6.	M]he	1	0	0	08.11.2022	JZkihagZgZl_vjl_`Zo j b k m g d Z o h i b k u \ Z l v b k i e v a m j f b g h e h ] b x b b a h [ j Z ` X i k f h s v x _ j l z ` g u o b g k l j m f _ g l l h q d m i j y f m x h l j _ a h d e m q m ] h e e h f Z g m x h d j m ` g h k l v J Z k i h a g Z \ Z l v i j b \ h ^ b l j b f _ j u h [ t _ d l h \ Z e v g h j ] h z b f _ x s b o h j f r b a m q _ g r g w ] o m j h p _ g b \ Z e v b g _ c g Z a f _ j u B k i e v a h e Z b y _ c d l j n Z g k i h j l d Z b g k l j m f _ g e y i h k l j h _ g b y b b a f _ j _ g b y b a f _ j y l v ^ e b g m h l \ _ e b q b n g ] e Z l j h b l h l j _ a h Z ^ Z g g b b g u m ] h e a Z ^ Z g g h c \ _ e b q b g l d e Z ^ u \ p z l j v d m e j Z i g u h l j _ a d b k l j h b l h v d j m ` g h k Z ^ Z g g i Z ] b m k Z ;	M k l g u c h i j h k	<a href="https://resh.edu.ru/subject/lesson/7719/start/3162">https://resh.edu.ru/subject/lesson/7719/start/3162</a>
2.7.	l j y f h c h k l j u c l m i h e j Z a \ z j g m t h u j e u	1	0	0	09.11.2022	JZkihagZgZl_vjl_`Zo j b k m g d Z o h i b k u \ Z l v b k i e v a m j f b g h e h ] b x b b a h [ j Z ` X i k f h s v x _ j l z ` g u o b g k l j m f _ g l l h q d m i j y f m x h l j _ a h d e m q m ] h e e h f Z g m x h d j m ` g h k l v ;	M k l g u c h i j h k	<a href="https://resh.edu.ru/subject/lesson/7719/start/3162">https://resh.edu.ru/subject/lesson/7719/start/3162</a>
2.8.	B a f _ j _ g r b ] e h \	4	0	0	11.11.2022 15.11.2022	B k i e v a h e Z b y _ c d l j n Z g k i h j l d Z b g k l j m f _ g e y i h k l j h _ g b y b b a f _ j _ g b y b a f _ j y l v ^ e b g m h l \ _ e b q b n g ] e Z l j h b l h l j _ a h Z ^ Z g g b b g u m ] h e a Z ^ Z g g h c \ _ e b q b g l d e Z ^ u \ p z l j v d m e j Z i g u h l j _ a d b k l j h b l h v d j m ` g h k Z ^ Z g g i Z ] b m k Z ;	l j Z d l b q _ k c j Z [ h l Z	<a href="https://resh.edu.ru/subject/lesson/7719/start/3162">https://resh.edu.ru/subject/lesson/7719/start/3162</a>
2.9.	l j Z d l b q _ k j Z l y l Z © l h k l j h _ g n j e h \ ^ a	1	0	0	16.11.2022	l h g b f Z b b k i e v a h i j Z l v _ r _ g b a z ^ Z a \ b k b f h k l b m _ ^ b g b p Z f b f _ l j b q _ k d h c k a g k Z d f r u f l l v j k y k g _ f _ l j b q _ k d b f b k b k l _ f Z f b f _ j \ u j Z ` Z l v ^ e b _ ^ b g b p Z a d _ j _ g b y B k k e _ ^ h h Z ] v m j b u d h g n b ] m j Z p b b b k i e v a p t n y j h \ u _ k m j k u ;	l j Z d l b q _ k c j Z [ h l Z	<a href="https://resh.edu.ru/subject/lesson/7719/start/3162">https://resh.edu.ru/subject/lesson/7719/start/3162</a>

Blh]hhjZa^_em		12						
JZa^3_# [udgh\_g g'ψh [ b								
3.1.	>jh [v	2	0	0	17.11.2022 18.11.2022	Fh^_ebjh\Zlv \ ]jZnbq_kdhc ij_^f_lg h b j f _ kihfhsvx dhfivxl_ijZgy lby k\hcklkZyaZg g b [udgh\_gg hc ^jh [vx QblZba Zibku\Zlv kjZ\gb\B [udgh\_g'g b [b ; ij_^eZ]Zlv h[hkgh\ubzh [km^ ^Zlv kihkh [mihjy^hqb\Zgby ^jh [_c Bah [jZ`Zlv [udgh\_gg'jh [b lhqdZfbgZ dhhj^bgZlig h hc bkihevah\Zhh j^bgZlgm x ijyfm^e k jZ\g_g' p h y [ _c ;	Mklguc hijhk	<a href="https://resh.edu.ru/subject/archived/12/5/">https://resh.edu.ru/subject/archived/12/5/</a>
3.2.	ljZ\bevgu_ b g_ijZ\bev g b [b	3	0	0	21.11.2022 23.11.2022	JZkihag Zb Zllbg gbe h`gu\ukdZau\Zhg phy yo ijb\h^blybf_jub dhgljijbf_ju kljhb lva kdZau\Zhg b j b p Z g b k dZau\Zgbc	lbkvf_ggu dhgljhev	<a href="https://resh.edu.ru/subject/lesson/7719/start/31620">https://resh.edu.ru/subject/lesson/7719/start/31620</a>
3.3.	Hkgh\gk h ck l^h [b	3	0	0	24.11.2022 28.11.2022	Nhjfm ebjh\Zlv aZibku\Zlhfhsvx fmdhkhgh\gh_ k\hckl\h h [udgh\_gg hc ^jh [b bkihevah k\hckl^h [b e k h d j Z s _ g' p h y [ _c i j b \ _ ^ _ g b y ^jh [lg h\h fang Zf_gZl_ex ;	lbkvf_ggu dhgljhev	<a href="https://resh.edu.ru/subject/lesson/7719/start/31620">https://resh.edu.ru/subject/lesson/7719/start/31620</a>
3.4.	KjZ\g_g' b h [ _c	3	1	0	29.11.2022 01.12.2022	JZkihag Zb Zllbg gbe h`gu\ukdZau\Zhg phy yo ijb\h^blybf_jub dhgljijbf_ju kljhb lva kdZau\Zhg b j b p Z g b k dZau\Zgbc	lbkvf_ggu dhgljhev Dhgljhevg jZ[hIZ	<a href="https://resh.edu.ru/subject/lesson/7719/start/31620">https://resh.edu.ru/subject/lesson/7719/start/31620</a>
3.5.	Keh`_gth_ \uqblZgb_ h[udgh\_gguo ^jh [_c	8	1	0	02.12.2022 13.12.2022	<uihegyZjbnf_l bq_ k d b k l \ b y [udgh\_ggufb ^jh[yfjbfb_gylv k\hckl\Z Zjbnf_l bq_kdb jZpbhgZeb a Z p b b e _ g b c <uihegylv ijbdb^dmp_gdm j_amevlZlZ \uqbke_gib_c^eZ]Zbvi jbf_gylvjbzfu ijh\_jdbuqbke_g p h \ h ^ b l b k k e _ ^ h \ Z g b y k\hckl^h [_c hibjZy g z qbkeh\wdki_jbf_g' l l f q b k & l h f h s v x dhfivxl_jZ ;	lbkvf_ggu dhgljhev Dhgljhevg jZ[hIZ	<a href="https://resh.edu.ru/subject/lesson/709/">https://resh.edu.ru/subject/lesson/709/</a> <a href="https://resh.edu.ru/subject/lesson/725/">https://resh.edu.ru/subject/lesson/725/</a>
3.6.	Kf_rZgg' j h [v	6	0	0	14.12.2022 21.12.2022	lj_^klZ\eky rZgg m j h [v\ b ^ g _ i j Z \ b e v t h c \u^_e p l y e m q z k l y b k d Z a g _ i j Z \ b e v g j h c b	lbkvf_ggu dhgljhev	<a href="https://resh.edu.ru/subject/lesson/7719/start/31620">https://resh.edu.ru/subject/lesson/7719/start/31620</a>

3.7.	Mfg h`_gb_ b ^_e_gb_ h[udgh\_gguo ^jh[_caZbfgh h[jZlgθjh[b	12	1	0	22.12.2022 13.01.2023	<uihegyZjbnf_l bq_ A dckl\by[udgh\_ggvj hlyfb ijbf_gylv k\hckl\Z Zjbnf_l bq_kdbo ^_ckl\b jZpbhgZebaZqbbbe_gbc <uihegylv ijbdh dmgdm_j_amevlZIZ \uqbke ij_^eZ]Zljbf_gyljzbzfujh\_jd\w qbke_gbc ljh\h^b bvkke_ ^h\K'ghcyk^yh[_c hibjZyqz qbkeh\wdki_jbf_θ l lufqbkθ ihfhsvx dhfivxl_jZ ;	Ibkvf_ggu dhgljhev Dhgljhevg jZ[hIZ	<a href="https://resh.edu.ru/subject/lesson/710/">https://resh.edu.ru/subject/lesson/710/</a>
3.8.	J_r_gb_dklh\uo aZ^Zkθ_j`Zsbo ^jh[b	4	0	0	16.01.2023 19.01.2023	J_rZlv l_dklh\u_ aZ^Zqb kh^_j`Z sθjh[g u^Zgg u_ baZ^Zqθ Zoh`^_θ Bklθ_ehθp_ehjh_] hZklb \uy\eybvko h^k lθZ aebqby Fh^_ebjh\θ h_j_r_g bay^Zkθ b fhsv x b k m g d Z ko_fu lZ[ebp u ljb\h^blv jZa[bjZlv hp_gb\Zlv jZaebqgu_ j_r_gby aZib k br_g b c dklh\aw^Zq Djblbq_kdb hp_gb\Zlv j h a m e v θ g l u c hkms_kl\θ Z f h d h g l j h e v ijh\_jy h \_θ Z h h l \_l k l m k e h \ b x ; gZoh^b l r b [d b AgZdhfb k b k y h j b j Z a \ b l B j b n f _ l b d b ;	Ibkvf_ggu dhgljhev	<a href="https://resh.edu.ru/subject/lesson/7719/start/3162">https://resh.edu.ru/subject/lesson/7719/start/3162</a>
3.9.	Hkg h\gaZ Z qθ Z ^jh[b	4	0	0	20.01.2023 26.01.2023	J_rZlv l_dklh\u_ aZ^Zqb kh^_j`Z sθjh[g u^Zgg u_ baZ^Zqθ Zoh`^_θ Bklθ_ehθp_ehjh_] hZklb \uy\eybvko h^k lθZ aebqby Fh^_ebjh\θ h_j_r_g bay^Zkθ b fhsv x b k m g d Z ko_fu lZ[ebp u ljb\h^blv jZa[bjZlv hp_gb\Zlv jZaebqgu_ j_r_gby aZib k br_g b c dklh\aw^Zq Djblbq_kdb hp_gb\Zlv j h a m e v θ g l u c hkms_kl\θ Z f h d h g l j h e v ijh\_jy h \_θ Z h h l \_l k l m k e h \ b x ; gZoh^b l r b [d b AgZdhfb k b k y h j b j Z a \ b l B j b n f _ l b d b ;	Ibkvf_ggu dhgljhev	<a href="https://resh.edu.ru/subject/lesson/7719/start/3162">https://resh.edu.ru/subject/lesson/7719/start/3162</a>
3.10.	Ijbf_g_gb_ [md\ ^ aZib k B l _ f Z l b q _ k d l \ujZ`_g b c ij_^eh`_g b c	3	0	0	27.01.2023 31.01.2023	AgZdhfb k b k y h j b j Z a \ b l B j b n f _ l b d b	Ibkvf_ggu dhgljhev	<a href="https://resh.edu.ru/subject/lesson/7719/start/3162">https://resh.edu.ru/subject/lesson/7719/start/3162</a>
Blh]hhjZa^_em		48						
JZa^4_θ Z]ey^gZ h f _ l j b f y g h ] h m ] h e v g b d b								

4.1.	Fgh]hm]hev g b d b	1	0	0	01.02.2023	Hibku\Zlv bkihevamjfbgheh]bx bah[jZ`Zilvfhsvq_jlz`gogkljmf_gllh]mdb fh^_ebjh\ZavmfZ]fgh]hm]hev g b d b ljb\h^biybf_juh[t_dlh_Zevgh]h fbjZbf_xsbo nhjfm]hm]hev g b d Z ijyfhm]hev g b d Z d\Z^jZIZ ; lj_m]hev g b d Z hp_gb\Zevbg_cgZaf_ju DhgkljmbjhZlVfZlq_kjdb`eh`_gkbyfhsvx k\yahd ©g_dhlhjuc^a ©ex[hc^a JZkihagZbZllbggheh`g u\ukdZau\Zgby fgh]hm]hev g b d Z o ijb\h^biybf_jubdhgljibf_ju ;	Mklguc hijk	<a href="https://resh.edu.ru/subject/lesson/555/">https://resh.edu.ru/subject/lesson/555/</a>
4.2.	Q_lujzom]hev g b d ijyfhm]hev g b d d\Z^jZIZ	1	0	0	02.02.2023	ljb\h^biybf_juh[t_dlh_Zevgh]h fbjZbf_xsbo nhjfm fgh]hm]hev g b d Z ijyfhm]hev g b d Z d\Z^jZIZ ; lj_m]hev g b d Z hp_gb\Zlv bo ebg_cg_u_ jZaf_jk uqbkeylv i_jbf_lj lj_m]hev g b d Z ijyfhm]hev g b d Z fgh]hm]hev g b d Z iehsZ^v ijyfhm]hev g b d Z jZIZ ;	L_klbjh\Zg	<a href="https://resh.edu.ru/subject/lesson/555/">https://resh.edu.ru/subject/lesson/555/</a>
4.3.	ljZdlbq_kjZlZ ©l hkljh_gb_ ijyfhm]hev g b d Z aZ^ZggkfbjhgZfb_g g_ebgh\ZgrghZ]^a	1	0	0	03.02.2023	Kljhblyg_ebgh\ZgghclqZllmZj]\Z^jZIZ ijyfhm]hev g b d Z Zggg^ebgZk bhjhg	ljZdlbq_kc jZ[hIZ	<a href="https://resh.edu.ru/subject/lesson/7719/start/3162">https://resh.edu.ru/subject/lesson/7719/start/3162</a>
4.4.	Lj_m]hev g b d	1	0	0	06.02.2023	Bah[jZ`Zilv]hm]hev gu_ ijyfhm]hev g b d um]hm]hev g b d um]hev g b d b	Mklguc hijk	<a href="https://resh.edu.ru/subject/lesson/554/">https://resh.edu.ru/subject/lesson/554/</a>

4.5.	lehsZ^v b i_jbf_lj ijyfhm]hevgbdZ b fgh]hm]hevgbdh\ khklZ\^e_gguo ba ijyfhm]hevgbdh\ _ ^bg bpaif_j_gby iehsZ^b	4	0	0	07.02.2023 10.02.2023	Bkke_ ^h\Zlv k\hckl\Z ijyfhm]hevgbdZjZlrlzf wdki_jbf_glZ gZ[ex^_gby baf_j_gby fh^_ebjh\Zgby kjZ\gb\Zlv k\hckl\Z d\Z^jZIZ b iijyfhm]hevg BkihevahkZkldZZ^jZlghd^be yhkljh_gby nb]mj jZa[b\Zlv iijyfhm]hevgbd gZ d\Z^jZl lj_m]hevgbdb khklZ\eylv nb]mju ba d\Z^j ijyfhm]hevgbdh\ gZoh^b\iehsZ^v jZa[b\Zlv]mjuZjyfhm]hevgbdZ^jZhgZoh^blv iehsZ^v <ujZ`ZlvebqbtgmsZ^bZaebqgdbgbpZo baf_j_gbyjbjq_kdbkl_ffuj ihgbfZbbkihevahZl\kbffkl'brm_ljbq_kdbfb _ ^bgbpZbf_j_glehsZ^b AgZdhfbkvjbf_jZfijbf_g_glehsZ^bb_jbf_ljZ ijZdlbq_kkdblonZpbyo ;	l b k v f _ g g u d h g l j h e v	<a href="https://resh.edu.ru/subject/lesson/556/">https://resh.edu.ru/subject/lesson/556/</a>	
4.6.	l_jbf_lfgh]m]hevgb	2	0	0	13.02.2023 14.02.2023	<uqbkeylv i_jbf_lj lj_m]hevgbdZm]hevgbdZ fgh]hm]hevgbdZ iehsZ^v ijyfhm]hevgbdZjZIZ	l b k v f _ g g u d h g l j h e v	<a href="https://resh.edu.ru/subject/12/5/">https://resh.edu.ru/subject/12/5/</a>	
Blh]hhjZa^_em		10							
JZa^5_e_kylbqg^yh[b									
5.1.	>_kylbqgZiybRjh[_c	4	0	0	15.02.2023 20.02.2023	ljh\h^bbkke_ ^h\Zlvk\hckl\Z ; h i b j Z y g b k e h w d k i _ j b f _ g l b f q b k d i h f h s v x d h f i v x l _ j Z \u^b]Z]lvihl_ bujb\h^blv boh[hkgh\Zgby JZkihagZbZllvggweh`g\ukdZau\Zgphy yo ijb\h^bljbf_jubdhgljijbf_ju kljhb\wkdZau\ZgbyjbpZg\yk dZau\Zgbc ;	Mklguc hijk	<a href="https://resh.edu.ru/subject/12/5/">https://resh.edu.ru/subject/12/5/</a>	
5.2.	KjZ\g_g^b_kylbqguo ^jh[_c	4	0	0	21.02.2023 24.02.2023	ljh\h^bbkke_ ^h\Zlvk\hckl\Z ; h i b j Z y g b k e h w d k i _ j b f _ g l b f q b k d i h f h s v x d h f i v x l _ j Z \u^b]Z]lvihl_ bujb\h^blv boh[hkgh\Zgby JZkihagZbZllvggweh`g\ukdZau\Zgphy yo ijb\h^bljbf_jubdhgljijbf_ju kljhb\wkdZau\ZgbyjbpZg\yk dZau\Zgbc ;	l b k v f _ g g u d h g l j h e v	<a href="https://resh.edu.ru/subject/12/5/">https://resh.edu.ru/subject/12/5/</a>	

5.3.	>_ckl\by k ^_kylbqgufb ^jh[yfb	15	1	0	27.02.2023 17.03.2023	<uihegyZjbnf_l bq_ k d d k l \ b \ y_ kylbqgufb ^jh[yfbuihegylv i j b d b ^ d m b hp_gdm j_ar \uqbk_e_g b b f _ g y l v k \ h c k l \ Z Z j b n f _ l b q _ k d ^_ckl\bc j^y b h g Z e b a u z q b b e _ g b c ;	l b k v f _ g g u d h g l j h e v D h g l j h e v g j Z [ h l Z	<a href="https://resh.edu.ru/subject/lesson/7719/start/3162">https://resh.edu.ru/subject/lesson/7719/start/3162</a>
.5.4.	Hdjme_gb_ ^_kylbqgjhq_c	6	0	0	20.03.2023 27.03.2023	l j b f _ g y l i y Z \ b e h d j m ] e _ g b k y l b q g j h q [ _ c	L _ k l b j h \ Z g	<a href="https://resh.edu.ru/subject/lesson/7719/start/3162">https://resh.edu.ru/subject/lesson/7719/start/3162</a>
5.5.	J_r_gb_ l_dklh\uo aZ^Zq^_j`Zsbo ^jh[b	5	0	0	28.03.2023 04.04.2023	l j h \ h ^ b b k k e _ ^ h \ Z g h o y k ^ \ _ k y l b q g j h q [ _ c ; h i b j Z y g z b k e h \ w d k i _ j b f _ g l b f q b k k i h f h s v x d h f i v x l _ j Z \ u ^ \ b ] Z ] b i h l _ b u i j b \ h ^ b b o h [ h k g h \ Z g b y J _ r Z l v l _ d k l h \ u _ a Z ^ Z q ^ b ^ _ j ` Z s b _ ^ j h [ g u ^ Z g g u _ b g z o h ^ ^ _ q z k l p _ e h p _ e h i j h _ ] q Z k l b u y \ e y l b o h ^ k l j Z a e b q b y F h ^ _ e b j h o z h j _ r _ g b a y ^ Z k j b f h s v x j b k m g l d z _ f u l Z [ e b p u l j b \ h ^ b l v j Z a [ b j Z l v h p _ g b \ Z l v j Z a e b q g u _ j _ r _ g b y a Z i b k b j _ r _ g b c l _ d k l h \ u o a Z ^ Z q D j b l b q _ k d b h p _ g b \ Z l v i h e m q _ g g u c j _ a m e v h i z m s _ k l \ b z l f h d h g l j h e v i j h \ _ j y h l \ _ g z h h l \ _ l k l m k e h \ b x ; g Z o h ^ b l r b [ d b A g Z d h f b k b k y h j b j Z c a \ b l z j b n f _ l b d b ;	l b k v f _ g g u d h g l j h e v D h g l j h e v g j Z [ h l Z	<a href="https://resh.edu.ru/subject/lesson/7719/start/3162">https://resh.edu.ru/subject/lesson/7719/start/3162</a>

5.6.	Hkgh\gaZqZ ^jh[b	4	0	0	05.04.2023 07.04.2023	ljh\h^bvkke_ ^h\kcyk\ kylbqg jnd_c ; hibjZy&Zbkeh\wdki_jbf_glbfbqbk&ihfsvx dhfivxl_jZ \u^b]Zlbi hl_ b ujb\h^blv boh[hkgh\Zgby J_rZlv l_dklh\u_ aZ^Zqb kh^_j`Z s^h[g u^Zgg u_ bgZgZoh`^_gZkpb_ ehjpb_ ehj]h_] hZklbuyl eybvo koh^k b jZ aebqby Fh^_ebjh\Z h^_r_g bayZ^Zkq b fhs v j b k m g d Z ko_fu lZ[ebpu ljb\h^blv jZa[bjZlv hp_gb\Zlv jZaebqgu_ j_r_gby aZibkb j_r_gbc l_adk^Z'quo Djblbq_kdb hp_gb\Zlv ihm q_gguc j_amev hZms_kl\kZf h dhgljhev ijh\_jyhl\_g Z hhl\_l k l m t k e h \ b x ; gZoh^b r b [ d b AgZdhfbk b k y h j b j Z c a \ b l E j b n f _ l b d b ;	lbkvf_ggu dhgljhev	<a href="https://resh.edu.ru/subject/lesson/7719/start/3162">https://resh.edu.ru/subject/lesson/7719/start/3162</a>
Blh]hhjZa^_em		38						
JZa^6. @Z]ey^gZhf_ljby_eZnb]mjliihkljZgkl\_								
6.1.	Fgh]h]jZggbdb	1	0	0	10.04.2023	JZkihagZgZl y l _ ` Z o j b k m g d Z o \ h d j m ` Z x s f _ b f j _ j y f h m ] h e v i g Z j z e e _ e _ i b i _ ^ d m [ f g h ] h ] j Z g g b d b ; h i b k u \ Z l v b k i h e v a _ m j f b g h e h ] b x h p _ g b \ Z b v g _ c g Z a f _ j u l j b \ h ^ b i y b f _ j u h [ t _ d l h \ Z e v g h b j h Z b f _ x s b o n h j f m f g h ] h ] j Z g g b d Z i j y f h m ] h e v g Z i j z e e _ e _ i b i _ ^ Z d m [ Z J Z k i h a g Z l z a h [ j Z ` Z Z v a \ z j l d b [ Z j Z e e _ e _ i b i _ ^ J _ r Z l a Z ^ Z l q _ Z e v g h b a g b ;	lbkvf_ggu dhgljhev	<a href="https://resh.edu.ru/subject/lesson/7719/start/3162">https://resh.edu.ru/subject/lesson/7719/start/3162</a>
6.2.	Bah[jz`_gb_ fgh]h]jZggbdh\	1	0	0	11.04.2023	JZkihagZgZl y l _ ` Z o j b k m g d Z o \ h d j m ` Z x s f _ b f j _ j y f h m ] h e v i g Z j z e e _ e _ i b i _ ^ d m [ f g h ] h ] j Z g g b d b h i b k u \ Z l v b k i h e v a _ m j f b g h e h ] b x h p _ g b \ Z b v g _ c g Z a f _ j u	ljZdlbq_kc jZ[hIZ	<a href="https://resh.edu.ru/subject/lesson/7719/start/3162">https://resh.edu.ru/subject/lesson/7719/start/3162</a>



6.3.	F h ^ _ e p h k l j Z g k l \ _ g g e c	1	0	0	12.04.2023	J Z k i h a g Z g Z l y j l _ ` Z o j b k m g d Z o \ h d j m ` Z x s f b f j _ j y f h m ] h e v i g Z u j Z e e _ e _ i b i _ ^ d m [ f g h ] h ] j Z g g b d b h i b k u \ Z l v b k i e v a m y l _ j f b g h e h ] b x h p _ g b \ e b j h \ Z h i j Z e e _ e _ i b i _ ^ Z l j b \ h ^ b i y b f _ j u h [ t _ d l h \ Z e v g h b j h Z b f _ x s b o n h j f m f g h ] h ] j Z g g b d Z i j y f h m ] h e v g Z i j Z e e _ e _ i b i _ ^ Z d m [ Z ;	M k l g u c h i j h k	<a href="https://resh.edu.ru/subject/lesson/7719/start/3162">https://resh.edu.ru/subject/lesson/7719/start/3162</a>
6.4.	l j y f h m ] h e v g u c i Z j Z e e _ e _ i b i _ ^	2	1	0	13.04.2023 14.04.2023	J Z k i h a g Z g Z l y j l _ ` Z o j b k m g d Z o \ h d j m ` Z x s f b f j _ j y f h m ] h e v i g Z u j Z e e _ e _ i b i _ ^ d m [ f g h ] h ] j Z g g b d b ; h i b k u \ Z l v b k i e v a m y l _ j f b g h e h ] b x h p _ g b \ e b j h \ Z h i j Z e e _ e _ i b i _ ^ Z l j b \ h ^ b i y b f _ j u h [ t _ d l h \ Z e v g h b j h Z b f _ x s b o n h j f m f g h ] h ] j Z g g b d Z i j y f h m ] h e v g Z i j Z e e _ e _ i b i _ ^ Z d m [ Z B a h [ j Z ` Z l m g Z d e _ l q Z ] m d Z ] _ B k k e _ ^ h \ Z l v k \ h c k l \ Z d m [ Z i j y f h m ] h e v g h ] h i Z j Z e e _ e _ i b i _ ^ Z f g h ] h ] j Z g g b d h \ b k i e v a m y e b ;	l b k v f _ g g u d h g l j h e v l j Z d l b q _ k c j Z [ h l Z	<a href="https://resh.edu.ru/subject/lesson/7719/start/3162">https://resh.edu.ru/subject/lesson/7719/start/3162</a>
6.5.	J Z a \ z j l d b d m [ Z b i Z j Z e e _ e _ i b i _ ^ Z	1	0	0	17.04.2023 18.04.2023	J Z k i h a g Z g Z l y j l _ ` Z o j b k m g d Z o \ h d j m ` Z x s f b f j _ j y f h m ] h e v i g Z u j Z e e _ e _ i b i _ ^ d m [ f g h ] h ] j Z g g b d b h i b k u \ Z l v b k i e v a m y l _ j f b g h e h ] b x h p _ g b \ e b j h \ Z h i j Z e e _ e _ i b i _ ^ Z F h ^ _ e b j h \ Z h i j Z e e _ e _ i b i _ ^ Z f Z l _ j b Z e h \ h [ t y k g k l i h k l f h ^ _ e b j h \ Z g b y ;	l b k v f _ g g u d h g l j h e v	<a href="https://resh.edu.ru/subject/lesson/7719/start/3162">https://resh.edu.ru/subject/lesson/7719/start/3162</a>
6.6.	l j Z d l b q _ k c Z l y j l Z © J Z a \ z j d m Z Z ^ a	1	0	0	19.04.2023	J Z k i h a g Z g Z l y j l _ ` Z o j b k m g d Z o \ h d j m ` Z x s f b f j _ j y f h m ] h e v i g Z u j Z e e _ e _ i b i _ ^ d m [ f g h ] h ] j Z g g b d b h i b k u \ Z l v b k i e v a m y l _ j f b g h e h ] b x h p _ g b \ e b j h \ Z h i j Z e e _ e _ i b i _ ^ Z F h ^ _ e b j h \ Z h i j Z e e _ e _ i b i _ ^ Z f Z l _ j b Z e h \ h [ t y k g k l i h k l f h ^ _ e b j h \ Z g b y ;	l j Z d l b q _ k c j Z [ h l Z	<a href="https://resh.edu.ru/subject/lesson/7719/start/3162">https://resh.edu.ru/subject/lesson/7719/start/3162</a>

6.7.	H[tzfdm[Z ijyfhm]hevgh]h iZjZee_e_ibi_^Z	2	0	0	20.04.2023 21.04.2023	GZoh^b^bf_j_gby \uqbkkeylv iehsZ^v ih\_joghklb h[tzfdm[Zjyfhm]hevgh]h iZjZee_e_ibi_^Z bkke_^h^Z\vbkbfbhklv h[tzfdm[Z hI ^ebgu_]h j\_u[?Zb]Zbv h[hkgh\u\]ZliVl_a m GZ[ex^Zi yh^h^bZvgZ ehfjb^mhgylybyfb iehsZ^bb[tzfZ i_jbf_ljZehsZ^b\_joghklb JZkihag ZbZllbgw eh`g u\_ukdZau\Zhgby fgh]h]jZggbdZo ijb\h^blijbf_jubdhgljijbf_ju kljhbly \ukdZau\Zgby b hljbpZgby \ukdZau\Zgbc J_rZlavZ^Zlq^Zevg^lba gb	ljZdlbq_kc jZ[hIZ	<a href="https://resh.edu.ru/subject/lesson/7719/start/3162">https://resh.edu.ru/subject/lesson/7719/start/3162</a>
Blh]hhjZa^_em		9						
JZa^7_eh\lhj_g^h[h[s_gb_								
7.1.	lh\lhj_gb_ hkgh\gu ihgyl^h^h\ dmjk deZk^hZh[s_g^gZgb	10	1	0	24.04.2023 26.05.2023	<uqbkkeylv agZq_gby \ujZ`_g^kch^_j`Zsbo gZlmjZevgu_ qbkkeZ h[udgh\_g^u_kylbqgu_ ^jh[buihegylv ij_h[jZah\Z^k^y_e <u[bjZkvhk^k]Z\g_gby qbk\_e^qbk_e_gbc ijbf_gylv k\hckl\Z Zjbnf_lbq_kdbo ^_ckl\bcjZ^phgZeba^Z^p^be_gbc Hkms_kl\eylv kZfhdhgljhev \uihegy_fuc ^_ckl\b^k^Zf hijh\_jdenmevlZIZ \uqbk_e_gbc J_rZlavZ^Zlq^Zevg^lba gb ijbf_gyfZl_fZlbq_ h g Z g^bey_r_g bayZ^Z^q ^jm]lbaq_[guo ij_^f_lh\ J_rZlv aZ^Zqb jZagufbkj Zhg^l^Zf^k^h[u j_r_g bayZ^Zqb \u[bjZljZpbhgZek^ghulch[	Mklguc hijhk lbkvf_ggu dhgljhev Dhgljhev jZ[hIZ ljZdlbq_kc jZ[hIZ	<a href="https://resh.edu.ru/subject/lesson/7719/start/3162">https://resh.edu.ru/subject/lesson/7719/start/3162</a>
Blh]hhjZa^_em		10						
H;S??DHEBQ?KIQ:KH< IHJH=J:FF?		170	10	0				

i	L_fZnjhdZ	Dhe bq_kdZkh\			>ZIZ bamq_ y	<b^u nhjfu dhgljhe y
		\k_ h	dhgljhev u_jZ[hlu	ijZdlbq_k b_jZ[hlu		
1.	>_kylbqgZy kbkl_fZ kqbke_gby	1	0	0	01.09.202 2	Mklgu c hijhk
2.	Jy^gZlmjZevguo qbk_e	1	0	0	02.09.202 2	Mklgu c hijhk
3.	GZlmjZevguc	1	0	0	05.09.202 2	Mklgu c hijhk
4.	Qbk_e.h	1	0	0	06.09.202 2	Mklgu c hijhk
5.	GZlmjZevgu_ qbkeZ_gZ dhhj^bgZlghc ijyfhc	1	0	0	07.09.202 2	Mklguc hijhk
6.	GZlmjZevgu_ qbkeZ_gZ dhhj^bgZlghc ijyfhc	1	0	0	08.09.202 2	lbkvf_gg cdhgljhev
7.	GZlmjZevgu_ qbkeZ_gZ dhhj^bgZlghc ijyfhc	1	0	0	09.09.202 2	lbkvf_gg cdhgljhev
8.	KjZ\g_gb_ hdjm]e_gb_ gZlmjZevguo qbk_e	1	0	0	12.09.202 2	Mklgu c hijhk
9.	KjZ\g_gb_ hdjm]e_gb_ gZlmjZevguo qbk_e	1	0	0	13.09.202 2	lbkvf_gg cdhgljhev
10.	KjZ\g_gb_ hdjm]e_gb_ gZlmjZevguo qbk_e	1	1	0	14.09.202 2	Dhgljhev ZyZ[hIZ
11.	KjZ\g_gb_ hdjm]e_gb_	1	0	0	15.09.202 2	Mklguc hijhk

	gZlmjZevguoqb_e					
12.	:jbnf_lbq_kdb_^_ckl\by k gZlmjZevgufb qbkeZfb	1	0	0	16.09.2022	lbkvf_gg cdhgljhev
13.	:jbnf_lbq_kdb_^_ckl\by k gZlmjZevgufb qbkeZfb	1	0	0	19.09.2022	lbkvf_gg cdhgljhev
14.	:jbnf_lbq_kdb_^_ckl\by k gZlmjZevgufb qbkeZfb	1	0	0	20.09.2022	lbkvf_gg cdhgljhev
15.	:jbnf_lbq_kdb_^_ckl\by k gZlmjZevgufb qbkeZfb	1	0	0	21.09.2022	lbkvf_gg cdhgljhev
16.	K\hckl\Z gmey ijbkeh`_gbb b mfg h`_gbb k\hckl\Z ^bgb ijbmfg h`_gbb	1	0	0	22.09.2022	Mklgu c hijhk
17.	l_j_f_klbl_ev g _khq_lZI_ev g k\hckl\Z keh`_gby b mfg h`_gby jZkij_^_ebl_ev h_k\hckl\h mfg h`_gby	1	0	0	23.09.2022	Mklgu c hijhk
18.	l_j_f_klbl_ev g _khq_lZI_ev g k\hckl\Z keh`_gby b mfg h`_gby jZkij_^_ebl_ev h_k\hckl\h mfg h`_gby	1	1	0	28.09.2022	lbkvf_gg cdhgljhev Dhgljhev yjZ[hIZ
19.	>_ebl_eb b djz qbkeZaeh`_gb_ qbkeZfghZ bl_ek	1	0	0	29.09.2022	L_klbjh\z -

20.	>_ebl_eb b djz qbkeZaeh`_gb_ qbkeZfghZ'bl_et	1	0	0	30.09.202 2	L_kl_bjh\z -
21.	>_ebl_eb b djz qbkeZaeh`_gb_ qbkeZfghZ'bl_et	1	0	0	03.10.202 2	L_kl_bjh\z -
22.	<IJ	1	0	0	04.10.202 2	<IJ
23.	>_e_gkth_klZldhf	1	0	0	06.10.202 2	Mklgu c hijhk
24.	>_e_gkth_klZldhf	1	0	0	07.10.202 2	lbkvf_gg cdhgljhev
25.	>_e_gkth_klZldhf	1	0	0	12.10.202 2	lbkvf_gg cdhgljhev
26.	>_e_gkth_klZldhf	1	0	0	13.10.202 2	L_kl_bjh\z -
27.	>_e_gkth_klZldhf	1	1	0	14.10.202 2	Dhgljhev ZyZ[hIZ
28.	ljhklub_khkIZ\g qbkeZ	1	0	0	19.10.202 2	Mklgu c hijhk
29.	ljhklub_khkIZ\g qbkeZ	1	0	0	20.10.202 2	Mklgu c hijhk

30.	ljb agZdb ^_ebfh gZ5, 10, 3, 9.	1	0	0	21.10.2022	Mklguc hijk
31.	ljb agZdb ^_ebfh gZ5, 10, 3, 9.	1	0	0	24.10.2022	lbkvf_ggu dhgljhev
32.	ljb agZdb ^_ebfh gZ5, 10, 3, 9.	1	0	0	25.10.2022	lbkvf_ggu dhgljhev
33.	ljb agZdb ^_ebfh gZ5, 10, 3, 9.	1	0	0	26.10.2022	>bdIZgl
34.	ljb agZdb ^_ebfh gZ5, 10, 3, 9.	1	1	0	27.10.2022	Dhgljhevg jZ[hIZ
35.	Kl_i_gv k gZlmjZevguf ihdZaZl_e_f	1	0	0	28.10.2022	lbkvf_ggu dhgljhev
36.	Kl_i_gv k gZlmjZevguf ihdZaZl_e_f	1	0	0	31.10.2022	lbkvf_ggu dhgljhev
37.	Qbkeh\u_ \ujZ`_gby ihjy^hd_ckl\bc	1	0	0	01.11.2022	Mklguc hijk
38.	Qbkeh\u_ \ujZ`_gby ihjy^hd_ckl\bc	1	0	0	02.11.2022	L_kljbh\Z
39.	J_r_gb_ l_dklh\u aZ^gZ \k_ Zjbnf_lbq_kdb_ ^_ckl\by gZ ^\b bihdmidb	1	0	0	07.11.2022	lbkvf_ggu dhgljhev
40.	J_r_gb_ l_dklh\u aZ^gZ \k_ Zjbnf_lbq_kdb_ ^_ckl\by gZ ^\b bihdmidb	1	0	0	08.11.2022	lbkvf_ggu dhgljhev
41.	J_r_gb_ l_dklh\u aZ^gZ \k_ Zjbnf_lbq_kdb_ ^_ckl\by gZ ^\b bihdmidb	1	0	0	09.11.2022	lbkvf_ggu dhgljhev
42.	J_r_gb_ l_dklh\u aZ^gZ \k_ Zjbnf_lbq_kdb_ ^_ckl\by gZ ^\b bihdmidb	1	0	0	10.11.2022	lbkvf_ggu dhgljhev

43.	J_r_gb_l_dklh\u aZ^Zz\k_ Zjbnf_lbq_kdb_ ^_ckl\by gZ ^\b bihdmidb	1	0	0	11.11.2022	lbkvf_ggu dhgljhev
44.	Lhqdz ijyfZy hlj_abdq	1	0	0	14.11.2022	Mklguc hijk
45.	EhfZgZy	1	0	0	15.11.2022	lbkvf_ggu dhgljhev
46.	Baf_j_gb_^ebgu hlj_aflZj_bq_kdb_ _^bgbbaf_j_gby ^ebgu	1	0	0	16.11.2022	ljZdlbq_k jZ[hIZ
47.	Hdjm`ghkldym]	1	0	0	17.11.2022	lbkvf_ggu dhgljhev
48.	ljZdlbq_kjZlylZ ©lhkljh_gb_mah badjm`ghkl_c^a	1	0	0	18.11.2022	Mklguc hijk
49.	ljyfhc hkljuc lmihqZba\zjgmluc m]eu	1	0	0	21.11.2022	Mklguc hijk
50.	Baf_j_gm]eh\ ]	1	0	0	22.11.2022	lbkvf_ggu dhgljhev
51.	Baf_j_gm]eh\ ]	1	0	0	23.11.2022	lbkvf_ggu dhgljhev
52.	Baf_j_gm]eh\ ]	1	0	0	24.11.2022	lbkvf_ggu dhgljhev
53.	Baf_j_gm]eh\ ]	1	0	0	25.11.2022	Mklguc hijk
54.	ljZdlbq_kjZlylZ ©lhkljh_gb_ m]eh\ ljZdlbq_kdZy jZ[hIZ ©lhkljh_gm]eh\ ]	1	0	0	28.11.2022	Mklguc hijk
55.	>jh[v	1	0	0	29.11.2022	Mklguc hijk
56.	>jh[v	1	0	0	30.11.2022	lbkvf_ggu dhgljhev
57.	ljZ\bevgu_b g_ijZ\bevgu_	1	0	0	01.12.2022	lbkvf_ggu dhgljhev

	^jh[b					
58.	IjZ\bevgu_ b g_ijZ\bevgu_ ^jh[b	1	0	0	02.12.2022	Ibkvf_ggu dhgljhev
59.	IjZ\bevgu_ b g_ijZ\bevgu_ ^jh[b	1	0	0	05.12.2022	Ibkvf_ggu dhgljhev
60.	Hkgh\gh_k\hckl^jh[b	1	0	0	06.12.2022	Ibkvf_ggu dhgljhev
61.	Hkgh\gh_k\hckl^jh[b	1	0	0	07.12.2022	Ibkvf_ggu dhgljhev
62.	Hkgh\gh_k\hckl^jh[b	1	0	0	08.12.2022	Ibkvf_ggu dhgljhev
63.	KjZ\g_gph[_c	1	0	0	09.12.2022	Ibkvf_ggu dhgljhev
64.	KjZ\g_gph[_c	1	0	0	12.12.2022	Ibkvf_ggu dhgljhev
65.	KjZ\g_gph[_c	1	1	0	13.12.2022	Dhgljhevg jZ[hIZ
66.	Keh`_gb_ b \uqblZgb_ h[udgh\_gguo ^jh[_c	1	0	0	14.12.2022	Ibkvf_ggu dhgljhev
67.	Keh`_gb_ b \uqblZgb_ h[udgh\_gguo ^jh[_c	1	0	0	15.12.2022	Ibkvf_ggu dhgljhev
68.	Keh`_gb_ b \uqblZgb_ h[udgh\_gguo ^jh[_c	1	0	0	16.12.2022	Ibkvf_ggu dhgljhev
69.	Keh`_gb_ b \uqblZgb_ h[udgh\_gguo ^jh[_c	1	0	0	19.12.2022	Ibkvf_ggu dhgljhev
70.	Keh`_gb_ b \uqblZgb_ h[udgh\_gguo ^jh[_c	1	0	0	20.12.2022	Ibkvf_ggu dhgljhev



71.	Keh`_gb_ b \uqblZgb_ h[udgh\_gguo ^jh[_c	1	0	0	21.12.2022	lbkvf_ggu dhgljhev
72.	Keh`_gb_ b \uqblZgb_ h[udgh\_gguo ^jh[_c	1	0	0	22.12.2022	lbkvf_ggu dhgljhev
73.	Keh`_gb_ b \uqblZgb_ h[udgh\_gguo ^jh[_c	1	1	0	23.12.2022	Dhgljhevg jZ[hIZ
74.	Kf_rZgg^j[h[v	1	0	0	26.12.2022	lbkvf_ggu dhgljhev
75.	Kf_rZgg^j[h[v	1	0	0	27.12.2022	lbkvf_ggu dhgljhev
76.	Kf_rZgg^j[h[v	1	0	0	28.12.2022	lbkvf_ggu dhgljhev
77.	Kf_rZgg^j[h[v	1	0	0	09.01.2023	lbkvf_ggu dhgljhev
78.	Kf_rZgg^j[h[v	1	0	0	10.01.2023	lbkvf_ggu dhgljhev
79.	Kf_rZgg^j[h[v	1	0	0	11.01.2023	lbkvf_ggu dhgljhev
80.	Mfgh`_gb_ b ^_e h[udgh\_gguo ^jh[_caZbfg h[jZlg^jh[b	1	0	0	12.01.2023	lbkvf_ggu dhgljhev
81.	Mfgh`_gb_ b ^_e h[udgh\_gguo ^jh[_caZbfg h[jZlg^jh[b	1	0	0	13.01.2023	lbkvf_ggu dhgljhev
82.	Mfgh`_gb_ b ^_e h[udgh\_gguo ^jh[_caZbfg h[jZlg^jh[b	1	0	0	16.01.2023	Mklguc hijk lbkvf_ggu dhgljhev
83.	Mfgh`_gb_ b ^_e h[udgh\_gguo ^jh[_caZbfg h[jZlg^jh[b	1	0	0	17.01.2023	lbkvf_ggu dhgljhev

84.	Mfgh`_gb_ b ^_e h[udgh\_gguo ^jh[_caZbfg h[jZlgθjh[b	1	0	0	18.01.2023	Ibkvf_ggu dhgljhev
85.	Mfgh`_gb_ b ^_e h[udgh\_gguo ^jh[_caZbfg h[jZlgθjh[b	1	0	0	19.01.2023	Ibkvf_ggu dhgljhev
86.	Mfgh`_gb^_θ_gb_ b h[udgh\_gguo ^jh[_caZbfg h[jZlgθjh[b	1	0	0	20.01.2023	Ibkvf_ggu dhgljhev
87.	Mfgh`_gb_ b ^_e h[udgh\_gguo ^jh[_caZbfg h[jZlgθjh[b	1	0	0	23.01.2023	Ibkvf_ggu dhgljhev
88.	Mfgh`_gb_ b ^_e h[udgh\_gguo ^jh[_caZbfg h[jZlgθjh[b	1	0	0	24.01.2023	Ibkvf_ggu dhgljhev
89.	Mfgh`_gb_ b ^_e h[udgh\_gguo ^jh[_caZbfg h[jZlgθjh[b	1	0	0	25.01.2023	Ibkvf_ggu dhgljhev
90.	Mfgh`_gb_ b ^_e h[udgh\_gguo ^jh[_caZbfg h[jZlgθjh[b	1	0	0	26.01.2023	Ibkvf_ggu dhgljhev
91.	Mfgh`_gb_ b ^_e h[udgh\_gguo ^jh[_caZbfg h[jZlgθjh[b	1	1	0	27.01.2023	Dhgljhevg jZ[hIZ

92.	J_r_gb_l_dklh\uaZ^Xb^_j`Zsbo^jh[b	1	0	0	30.01.2023	lbkvf_ggudhgljhev
93.	J_r_gb_dklh\uaZ^Xb^_j`Zsbo^jh[b	1	0	0	01.02.2023	lbkvf_ggudhgljhev
94.	J_r_gb_l_dklh\uaZ^Xb^_j`Zsbo^jh[b	1	0	0	02.02.2023	lbkvf_ggudhgljhev
95.	J_r_gb_l_dklh\uaZ^Xb^_j`Zsbo^jh[b	1	0	0	03.02.2023	Mklguc hijk lbkvf_ggudhgljhev
96.	Hkgh\gauZ_ZqφZ^jh[b	1	0	0	06.02.2023	lbkvf_ggudhgljhev
97.	Hkgh\gauZ_ZqφZ^jh[b	1	0	0	07.02.2023	lbkvf_ggudhgljhev
98.	Hkgh\gauZ_ZqφZ^jh[b	1	0	0	08.02.2023	lbkvf_ggudhgljhev
99.	Hkgh\gauZ_ZqφZ^jh[b	1	0	0	09.02.2023	lbkvf_ggudhgljhev
100.	ljbfg_gb_[md\ aZibkb fZI_fZlbq\ujZ`_gbcij_^eh`_gbc	1	0	0	10.02.2023	lbkvf_ggudhgljhev
101.	ljbfg_gb_[md\ aZibkb fZI_fZlbq\ujZ`_gbcij_^eh`_gbc	1	0	0	13.02.2023	lbkvf_ggudhgljhev
102.	ljbfg_gb_[md\ aZibkb fZI_fZlbq\ujZ`_gbcij_^eh`_gbc	1	0	0	14.02.2023	lbkvf_ggudhgljhev
103.	Fgh]hm]hevgbdb	1	0	0	15.02.2023	Mklguc hijk
104.	Q_lujzom]hevgbcd\Z^jZl	1	0	0	16.02.2023	L_klbjh\Z

105.	l j Z d l b q _ k j z z l y l Z © l h k l j h _ g b _ i j y f h m ] h e v g b d Z a Z ^ Z g g u f b k l h j h g g z _ e b g h \ Z g g h c [ m f Z ] _ ^ a	1	0	0	17.02.2023	M k l g u c h i j h k
106.	L j _ m ] h e v g b d	1	0	0	20.02.2023	M k l g u c h i j h k
107.	l e h s Z ^ v b i _ j b f _ i j y f h m ] h e v g b d Z f g h ] h m ] h e v g b d h \ k h k l Z \ e _ g g u o b a i j y f h m ] h e v g b d h \ _ ^ b g b p a u f _ j _ g b y i e h s Z ^ b	1	0	0	21.02.2023	l b k v f _ g g u d h g l j h e v
108.	l e h s Z ^ v b i _ j b f _ i j y f h m ] h e v g b d Z f g h ] h m ] h e v g b d h \ k h k l Z \ e _ g g u o b a i j y f h m ] h e v g b d h \ _ ^ b g b p a u f _ j _ g b y i e h s Z ^ b	1	0	0	22.02.2023	l b k v f _ g g u d h g l j h e v
109.	l e h s Z ^ v i _ j b f _ l j i j y f h m ] h e v g b d Z f g h ] h m ] h e v g b d h \ k h k l Z \ e _ g g u o b a i j y f h m ] h e v g b d h \ _ ^ b g b p a u f _ j _ g b y i e h s Z ^ b	1	0	0	27.02.2023	l b k v f _ g g u d h g l j h e v
110.	l e h s Z ^ v b i _ j b f _ i j y f h m ] h e v g b d Z f g h ] h m ] h e v g b d h \ k h k l Z \ e _ g g u o b a i j y f h m ] h e v g b d h \ _ ^ b g b p a u f _ j _ g b y i e h s Z ^ b	1	0	0	28.02.2023	l b k v f _ g g u d h g l j h e v
111.	l _ j b f _ l j f g h ] h m ] h e v g b d Z	1	0	0	01.03.2023	l b k v f _ g g u d h g l j h e v
112.	l _ j b f _ l j f g h ] h m ] h e v g b d Z	1	0	0	02.03.2023	l b k v f _ g g u d h g l j h e v
113.	> _ k y l b q a z i y k v ^ j h [ _ c	1	0	0	03.03.2023	M k l g u c h i j h k

114.	>_kylbqgZiy kv ^jh[_c	1	0	0	06.03.2023	Mklguc hijk
115.	>_kylbqgZiy kv ^jh[_c	1	0	0	07.03.2023	Mklguc hijk
116.	>_kylbqgZiy kv ^jh[_c	1	0	0	09.03.2023	Mklguc hijk
117.	KjZ\g_gb_ ^_kylbqgZiy kv ^jh[_c	1	0	0	10.03.2023	lbkvf_ggu dhgljhev
118.	KjZ\g_gb_ ^_kylbqgZiy kv ^jh[_c	1	0	0	13.03.2023	lbkvf_ggu dhgljhev
119.	KjZ\g_gb_ ^_kylbqgZiy kv ^jh[_c	1	0	0	14.03.2023	lbkvf_ggu dhgljhev
120.	KjZ\g_gb_ ^_kylbqgZiy kv ^jh[_c	1	0	0	15.03.2023	lbkvf_ggu dhgljhev
121.	>_ckl\by k ^_kylbqgufb ^jh[yfb	1	0	0	16.03.2023	lbkvf_ggu dhgljhev
122.	>_ckl\by k ^_kylbqgufb ^jh[yfb	1	0	0	17.03.2023	lbkvf_ggu dhgljhev
123.	>_ckl\by k ^_kylbqgufb ^jh[yfb	1	0	0	20.03.2023	lbkvf_ggu dhgljhev
124.	>_ckl\by k ^_kylbqgufb ^jh[yfb	1	0	0	21.03.2023	lbkvf_ggu dhgljhev
125.	>_ckl\by k ^_kylbqgufb ^jh[yfb	1	0	0	22.03.2023	lbkvf_ggu dhgljhev
126.	>_ckl\by k ^_kylbqgufb ^jh[yfb	1	0	0	23.03.2023	lbkvf_ggu dhgljhev
127.	>_ckl\by k ^_kylbqgufb ^jh[yfb	1	0	0	24.03.2023	lbkvf_ggu dhgljhev
128.	>_ckl\by k ^_kylbqgufb ^jh[yfb	1	0	0	27.03.2023	lbkvf_ggu dhgljhev
129.	>_ckl\by k ^_kylbqgufb ^jh[yfb	1	0	0	28.03.2023	lbkvf_ggu dhgljhev

130.	>_ckl\by k ^_kylbqgufb ^jh[yfb	1	0	0	29.03.2023	lbkvf_ggu dhgljhev
131.	>_ckl\by k ^_kylbqgufb ^jh[yfb	1	0	0	30.03.2023	lbkvf_ggu dhgljhev
132.	>_ckl\by k ^_kylbqgufb ^jh[yfb	1	0	0	31.03.2023	lbkvf_ggu dhgljhev
133.	>_ckl\by k ^_kylbqgufb ^jh[yfb	1	0	0	10.04.2023	lbkvf_ggu dhgljhev
134.	>_ckl\by k ^_kylbqgufb ^jh[yfb	1	0	0	11.04.2023	lbkvf_ggu dhgljhev
135.	>_ckl\by k ^_kylbqgufb ^jh[yfb	1	1	0	14.04.2023	Dhgljhevg jZ[hIZ
136.	Hdjm]e_gb_ ^_kylbqgufb_c	1	0	0	17.04.2023	Mklguc hijk
137.	Hdjm]e_gb_ ^_kyl ^jh[_c	1	0	0	18.04.2023	lbkvf_ggu dhgljhev
138.	Hdjm]e_gb_ ^_kyl ^jh[_c	1	0	0	19.04.2023	lbkvf_ggu dhgljhev
139.	Hdjm]e_gb_ ^_kyl ^jh[_c	1	0	0	20.04.2023	Mklguc hijk
140.	Hdjm]e_gb_ ^_kyl ^jh[_c	1	0	0	21.04.2023	lbkvf_ggu dhgljhev
141.	Hdjm]e_gb_ ^_kyl ^jh[_c	1	0	0	24.04.2023	L_kljbh\Z
142.	J_r_gb_ l_dklh\uo kh^_j`Zs^jb[b	1	0	0	25.04.2023	lbkvf_ggu dhgljhev
143.	J_r_gb_ l_dklh\uo kh^_j`Zs^jb[b	1	0	0	26.04.2023	lbkvf_ggu dhgljhev
144.	J_r_gb_ l_dklh\uo kh^_j`Zs^jb[b	1	0	0	27.04.2023	lbkvf_ggu dhgljhev
145.	J_r_gb_ l_dklh\uo kh^_j`Zs^jb[b	1	0	0	28.04.2023	lbkvf_ggu dhgljhev
146.	J_r_gb_ l_dklh\uo kh^_j`Zs^jb[b	1	1	0	02.05.2023	Dhgljhevg jZ[hIZ

147.	Hkgh\gauZ^ZgZjh[b	1	0	0	03.05.2023	lbkvf_ggu dhgljhev
148.	Hkgh\gauZ^ZgZjh[b	1	0	0	04.05.2023	lbkvf_ggu dhgljhev
149.	Hkgh\gauZ^ZgZjh[b	1	0	0	05.05.2023	lbkvf_ggu dhgljhev
150.	Hkgh\gauZ^ZgZjh[b	1	0	0	10.05.2023	lbkvf_ggu dhgljhev
151.	Fgh]h]jZggbdb	1	0	0	11.05.2023	Mklguc hijk
152.	Bah[jZ`_gb_ fgh]h]jZggbdh\	1	0	0	12.05.2023	lbkvf_ggu dhgljhev
153.	Fh^_eb ijhkljZgkl\ l_e	1	0	0	15.05.2023	Mklguc hijk
154.	l j y f h m ] h e v g u c i Z j Z e e _ e _ i b i [ ^	1	0	0	16.05.2023	lbkvf_ggu dhgljhev
155.	l j y f h m ] h e v g u c i Z j Z e e _ e _ i b i [ ^	1	0	0	17.05.2023	Dhgljhev g jZ[hIZ
156.	JZa\zjldb dm[Z b iZjZee_e_ibi_^Z	1	0	0	18.05.2023	lbkvf_ggu dhgljhev
157.	l j Z d l b q _ k j Z Z l y l Z © J Z a \ z j l d b Z Z ^ a	1	0	0	19.05.2023	l j Z d l b q _ k j Z [ h I Z
158.	H[tzf dm[Z ijyfhm]hevgh]h iZjZee_e_ibi_^Z	1	0	0	22.05.2023	lbkvf_ggu dhgljhev
159.	H[tzf dm[Z ijyfhm]hevgh]h iZjZee_e_ibi_^Z	1	0	0	23.05.2023	lbkvf_ggu dhgljhev
160.	Ih\Ihj_gb_ hkgh\g ihgylbc b f_Ih^h\ deZkkZh[s_gdgZgb	1	0	0	24.05.2023	lbkvf_ggu dhgljhev
161.	Ih\Ihj_gb_ hkgh\g ihgylbc b f_Ih^h\ deZkkZh[s_gdgZgb	1	0	0	25.05.2023	lbkvf_ggu dhgljhev
162.	Ih\Ihj_gb_ hkgh\g ihgylbc b f_Ih^h\ deZkkZh[s_gdgZgb	1	0	0	29.05.2023	Mklguc hijk

163.	Ih\Ihj_gb_hkgh\g ihgy bc f_Ih^h\ deZkkZh[s_gdgZgb	1	0	0	30.05.2023	Ibkvf_ggu dhgljhev
164.	Ih\Ihj_gb_hkgh\g ihgy bc b f_Ih^h\ deZkkZh[s_gdgZgb	1	0	0	31.05.2023	Ibkvf_ggu dhgljhev
165.	Ih\Ihj_gb_hkgh\g ihgy bc b f_Ih^h\ deZkkZh[s_gdgZgb	1	0	0		Ibkvf_ggu dhgljhev
166.	Ih\Ihj_gb_hkgh\g ihgy bc b f_Ih^h\ deZkkZh[s_gdgZgb	1	0	0		Ibkvf_ggu dhgljhev
167.	Ih\Ihj_gb_hkgh\g ihgy bc b f_Ih^h\ deZkkZh[s_gdgZgb	1	0	0		Ibkvf_ggu dhgljhev
168.	Ih\Ihj_gb_hkgh\g ihgy bc b f_Ih^h\ deZkkZh[s_gdgZgb	1	0	0		Ibkvf_ggu dhgljhev



169.	Ih\Ihj_gb_hkgh\ ihgyIBC b f_Ih^h dmjkZeZkkZ h[h[s_gZgbc	1	1	0		Dhgljhevg jZ[hIZ
170.	Ih\Ihj_gb_kgh\guc ihgyIBC b f_Ih^h dmjkZeZkkZ h[h[s_gZgbc	1	0	0		Ibkvf_ggu dhgljhev
H;S?DHEBQ?KL<H Q:KHKH IJH=J:FF?		170	10	0		

MQ?;GF?LH>BQ?KDH;??KI?Q?GB?;J:AH<:L?EVGHJHP?KK:

H;YA:L?EVG WQ?;GUP:L?JB:EU>EYMQ?GBD:

F\_jaeyd := l hehgkdbc < ; Ydbj F K ih^ j\_^Zdpb\_c l deZk&kkdh] H[s\_kl\k]jZgbq\_ggh\dkl\\_ggh Blav^ZI\_evk\dl?GL:G=J:N :dpbhg\_jgh\_ h[s\_kl\Ba^ZI\_evkl\h ljhk\\_s\_gb\_ <\\_^bk\\_hZjbZgl

F?LH>BQ?KDB:Z?JB:EU>EYMQBL?EY

- 1.:\lhj;mpd?h <F\_jaeyd= l hehgkdbc K\_jb Ebgby MFD = F\_jaey BZI\_fZlbdZ (5- DeZkk deZkk lj\_^f\_l FZI\_fZlbdZ Ba^ZI:\_Ne v d h j i h j Z G y G J h k k b c l m q \_ [ g b d ^ j h ^ m d p b b F\_l h ^ b q \_ k d h \_ i h k h [ b
- 2.:\lhj F\_jaeyd := l hehgkdbc < ; Ydbj F K K\_jby Ebgby MFD : DeZkk deZkk lj\_^f\_l FZI\_fZlbdZ Ba^ZI:\_Ne v d h j i h j Z G y G J h k k b c k d m q \_ [ g b d ^ j h ^ m d p b b J Z [ h j q Z y
- 3.:\lhj F\_jaeyd := l hehgkdbc Ydbj F K K\_jby Ebgby MFD : = F\_jaey DeZkk deZkk lj\_^f\_l FZI\_fZlbdZ Ba^ZI:\_Ne v d h j i h j Z G y G J h k k b c k d m q \_ [ g b d ^ j h ^ m d p b b J Z [ h j q Z y
- 4.:\lhj F\_jaeyd := l hehgkdbc < ; JZ[bgh\bq :? E K\_jb Ebgby M FZI\_fZlbdZ DeZkk deZkk lj\_^f\_l FZI\_fZlbdZ Ba^ZI:\_Ne v d h j i h j Z G y G J h k k b c k d m q \_ [ g b d ^ j h ^ m d p b b ^ Z d l b q \_ k d b \_ f Z I \_ j b Z e u
- 5.:\lhj;mpd?h <K\_jb Ebgby MFD = F\_jaey BZI\_fZlbdZ (5- DeZkk deZkk lj\_^f\_l FZI\_fZlbdZ Ba^ZI:\_Ne v d h j i h j Z G y G J h k k b c k d m q \_ [ g b d ^ j h ^ m d p b b ^ Z d l b q \_ k d b \_ f Z I \_ j b Z e u DhgljhevjgZ\_hlu

PBNJH<UH;J:AH<:L?EVG W?KMJKBJ?KMJKK?LBBGL?JG?L

1. l\_^Z]h]bq\_kdZy fZkl\_jkdZy mjhdb \ Bgl\_jg\_l b fgh]h\_ ^jm]h\_ KW http://www.fcior.edu.ruhttp://www.schoolcollection.edu.ru/
2. Gh\u\_ogheh]h]Zah\Zh http://edu.secna.ru/main/.
3. lml\_\h^bl @ e b j\_g Z m d e y d h e g b d http://www.uic.ssu.samara.ru/buka/.
4. F\_]Zwgpbd e Dib\_jb e Z\_n h ^ http://mega.km.ru.
5. KZcl @ F b j w g p b d e h i \_ http://www.rubricon.ru http://www.encyclopedia.ru1.

F:L?JB:EVGH?OGBQ?KDH?KI?Q?GBH;J:AH<:L?EVGHHP?KK:

---

MQ?;GHP;HJM>H<:GB?

Fmevlbf\_^bcguc dhfivxl\_j

KdZg\_j

Ijbgl\_j eZa\_jguc

Dhibjh\Zevguc ZiiZjZl

Fmevlbf\_^bZijh\_dlhj

Kj\_^klZe\_dhffmgbdZpbb

WdjZgZlZlb\\_geZ\\_kghc

H;HJM>H<:GBEYIJH<?>?GBEY;HJ:LHJGUBIJ:DLBQ?KDBJO;HL

:m^blhjpgZkZZ]gblgimh\_joghkbyZ[hjhjfbkihkh[e^gbdj\_ie\_gZye bp

