O‘zbekiston Respublikasi
Maktabgacha va maktab ta’limi vazirligi huzuridagi
Ixtisoslashtirilgan ta’lim muassasalari agentligi
2022-2023 o‘quv yili III-chorak
Ixtisoslik fanlaridan choraklik summativ baholash test savollari.
6-sinf
II VARIANT

1-30 matematika, 31-45 ingliz tili.
(B-bilish; Q-qo‘llash; M-mulohaza ga oid test savollari)

O‘quvchi (F.I.SH).....

1. (B. 1ball) Quyidagi jumlalarni o‘qing. Jumla to‘g‘ri bo‘lsa, “ha”, noto‘g‘ri bo‘lsa “ yo‘q” belgilar yordamida to‘gri javobni toping?

№	Jumla	Ha	Yo‘q
1	0 va 1 sonlari istalgan sonning bo‘luvchisi bo‘ladi.		
2	Agar $a < 0$ va $b < 0$ bo‘lsa, u holda $a + b < 0$, $ab > 0$, $a/b > 0$ bo‘ladi.		
3	Agar $a > 0$ va $b < 0$ bo‘lsa, u holda $b/a < 0$, $ab < 0, \frac{a}{b} > 0$ bo‘ladi.		
4	Faqat 1 soni bitta bo‘luvchisi ega bo‘lgan natural sondir.		

A) 1- yo‘q; 2- ha; 3-yo‘q; 4-ha
B) 1-ha; 2-yo‘q; 3-ha; 4-yo‘q
C) 1-ha; 2-ha; 3-yo‘q; 4-yo‘q
D) 1-ha; 2-ha; 3-ha; 4-yo‘q

2. (B. 1ball) Quyidagi jumlalarni o‘qing. Jumla to‘g‘ri bo‘lsa, ≪+≫, noto‘g‘ri bo‘lsa ≪-≫ belgilar yordamida to‘gri javobni toping?

1.	Agar $a-b \geq 4a+5b$ bo‘lsa, u holda $a \leq -2b$;	
2.	Agar $4a-b < 2a+b$ bo‘lsa, u holda $a > b$;	
3.	Agar $a-2b \geq 5a+4b$ bo‘lsa, u holda $2a \leq -3b$;	
4.	Agar $2a+2b > 6a-2b$ bo‘lsa, u holda $a > b$;	

A) $-;-;+;+$ B) $+;-;+;-$ C) $+;+;-;-$ D) $+;+;-;+$

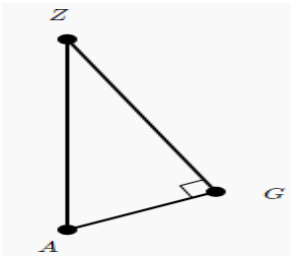
3. (B. 1ball) Agar 1) $a^3|a| < 0$; 2) $a|a|^2 > 0$; 3) $\frac{a^3}{|a|} > 0$; 4) $\frac{|a|}{a} < 0$ bo‘lsa , a sonning musbat yoki manfiy ekanligini aniqlang.

A) $+,-,+,-$ B) $-,+,+,+$ C) $-,+,+,-$ D) $-,+,-,-$

4. (B. 1ball) Ifodaning son qiymatini toping: $|-a|^3b^5c^9$, bunda $a=-2, b=\frac{1}{2}, c=-1$;

A) -4 B) 4 C) 0,25 D) $-0{,}25$

5. (B. 1ball) ΔZAG ning qaysi ikki tomoni o‘zaro perpendikulyar?



A) $GA\ va\ AZ$ B) $AG\ va\ ZG$ C) $ZG\ va\ ZA$ D) $Hech\ qaysi$

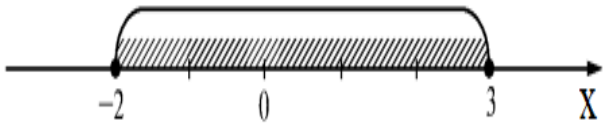
6. (B. 1ball) Quyidagi c**hiziqlardan qaysilari parallel, perpendikulyar va kesishuvchilarni aniqlang.**

A) perpendikulyar, parallel, **kesishuvchi**, perpendikulyar
B) perpendikulyar, parallel, perpendikulyar, **kesishuvchi**
C) perpendikulyar, perpendikulyar, **kesishuvchi**, parallel
D) **kesishuvchi**, parallel, perpendikulyar, perpendikulyar

7. (B. 1ball) To‘g‘ri burchakli koordinatalar sistemasiga doir to‘g‘ri javobni aniqlang.

A) OX absissa o‘qi, OY ordinata o‘qi. III chorak $x<0, y<0$
B) OX ordinata o‘qi, OY absissa o‘qi. III chorak $x<0, y<0$
C) OX absissa o‘qi, OY ordinata o‘qi. III chorak $x>0, y<0$
D) OX absissa o‘qi, OY ordinata o‘qi. II chorak $x>0, y<0$

8. (B. 1ball) Rasmda tasvirlangan x sonlar to‘plamini qo‘sh tengsizlik ko‘rinishi qaysi javobda to‘g‘ri ko‘rsatilgan.



A) $-2 \le x < 0$ B) $-2 < x > 3$ C) $-2 < x < 3$ D) $-2 \le x \le 3$

9. (Q. 1,25ball) Koordinata tekisligida $A(5;2)$, $B(2;1)$, $C(-3;4)$, $D(-2;2)$ nuqtalarni belgilang. AB va CD nurlarni o‘tkazing. AB va CD nurlar kesishgan nuqtasining koordinatalarini toping.

A) $(-3;0)$ B) $(0;0)$ C) $(-1;0)$ D) $(0;-1)$

10. (Q. 1,25ball) $\frac{x-1}{3} + \frac{5x+2}{12} = \frac{5+3x}{4}$ tenglamani yeching.

A) 1 B) 2,5 C) 3 D) $\emptyset$

11. (Q. 1,25ball) Xonadagi pashshalar soni kuniga ikki marta ko‘payadi. Agar xona 20 kunda to‘lgan bo‘lsa, nechanchi kuni yarim bo‘lgan?

A) 10 B) 15 C) 18 D) 19

12. (Q. 1,25ball) $\begin{cases} \frac{4x-5}{5} + \frac{2x+3}{3} \ge 3x - 1\frac{8}{15} \\ \frac{4x-11}{4} - \frac{2x-5}{3} \le x - 1{,}25 \end{cases}$ sistema nechta butun yechimga ega?

A) Ø B) 1 C) 10 D) cheksiz ko‘p

13. (Q. 1,25ball) x ning qanday qiymatlarida $\frac{10-3x}{4}$ kasrning qiymati (-4;−2] oraliqda bo‘ladi.

A) $-\frac{26}{3} < x \le 6$ B) $\frac{26}{3} > x \ge -6$ C) $\frac{26}{3} > x \ge 6$ D) $\frac{26}{3} < x \le 6$

14. (Q. 1,25ball) Agar, $\begin{cases} ab < ac \\ b > c \end{cases}$ bo‘lsa, quyidagilardan qaysi biri doim to‘g‘ri? (Bunda $a, b, c \in R$.)

A) $a(b-c) > 0$ B) $ab < 0$ C) $a + c > 0$ D) $b - c - a > 0$

15. (Q. 1,25ball) $-5 \le y \le 4$ va $-1 \le x \le 3$ bo‘lsa, $2y - x$ ifodaning eng kichik qiymatini toping? A) 6 B) 8 C) 11 D) -13

16. (Q8. 1,25ball) $2 > x > -3$ bo‘lsa, $|x+3| + |x-2|$ ni soddalashtiring.

A) 5 B) $2x + 1$ C) $-2x - 1$ D) 1

17. (Q. 1,25ball) Quyida keltirilgan tengsizliklardan qaysi biri $3x - a > b - 2x$ tengsizlikka teng kuchli?

A) $5x + a > b$ B) $6x + 2a > 2b - 4x$ C) $3x > a + b - 2x$ D) $5x > a - b$

18. (Q. 1,25ball) ab ikki xonali son. $\frac{\overline{ab}}{a}+\frac{\overline{ba}}{a}=44$ bo‘lsa, b soni a dan necha marta katta?

A) 3 B) 2 C) 4 D) 5

19. (Q. 1,25ball) $|x+1|=2|x-2|$ tenglamaning ildizlari yig‘indisini toping.

A) 7 B) 6 C) 4 D) 5

20. (Q. 1,25ball) Ushbu $|5-2x|\leq 3$ tengsizlikning butun yechimlari yig‘indisini toping.

A) 10 B) 15 C) 6 D) 3

21. (Q. 1,25ball) Uchburchakning birinchi tomoni $x(x>13)$ cm, ikkinchi tomoni undan 5 cm qisqa, uchinchi tomoni esa birinchisidan 4 cm uzun. Shu uchburchakning perimetrini toping.

A) $3x-1$ B) $3x+4$ C) $3x-3$ D) bunday uchburchak mavjud emas

22. (Q. 1,25ball) Agar to‘g‘ri burchakli koordinatalar sistemasida $A(-7;0)$, $B(-2;4)$ va $C(-2;0)$ nuqtalardan hosil bo‘lgan shaklning yuzini toping?

A) 9 B) 10 C) 12 D) 8

23. (Q. 1,25ball) Tengsizliklarni qo‘shing:

$2,(1)x+2y-5z>2,7a+3,6b$ va $-5,(7)x-4y+2,4z>-5,01a+9,8b$

A) $-3\frac{2}{3}x+2y-2,6z>-2,31a+13,4b$ B) $-3\frac{2}{3}x-2y-2,6z>2,31a+13,4b$

C) $3\frac{2}{3}x-2y-2,6z>-2,31a+13,4b$ D) $-3\frac{2}{3}x-2y-2,6z>-2,31a+13,4b$

24. (Q. 1,25ball) Tengsizliklarni ko‘paytiring.

$2,4<2x+13$ va $6x-10<8,7$ bunda $2<x<3$

A) $17,4x-113,1>14,4x-24$ B) $17,4x+113,1>-14,4x-24$

C) $17,4x+113,1>14,4x-24$ D) $-17,4x-113,1>14,4x-24$

25. (Q. 1,25ball) $A=0,7x$, $B=-x^2$ va $C=\frac{0,1}{x}$ ifodalarning qiymatini $x=-0,4$ da toping va topilgan qiymatlarni kamayish tartibida joylashtiring.

A) $A>C>B$ B) $B>C>A$ C) $A<B<C$ D) $C<A<B$

26. (Q. 1,25ball) Tengsizlikni yeching. $\big||x-4|-2\big|<3$

A) $-1<x<9$ B) $1<x<9$ C) $1,5<x<3$ D) $-3<x<1,5$

27. (Q. 1,25ball) $a=1-\frac{2}{2-\frac{1}{2}}$, $b=-\frac{1}{2}$ bo‘lib, $x=a$, $y=a\cdot b$, $z=\frac{a}{b}$ ifodani o‘sish tartibida joylashtiring.

A) $x>z>y$ B) $x>y>z$ C) $x<y<z$ D) $y>z>x$

28. (Q. 1,25ball) $2 < |x - 3| \leq 5$ tengsizlikni yeching.

A) $-2 \leq x < -1, \quad 5 < x \leq 8$
B) $-2 \leq x < 1, \quad 5 < x \leq 8$
C) $-2 \leq x < 1, \quad 5 < x < 8$
D) $-2 \leq x < 1, \quad 5 \leq x \leq 8$

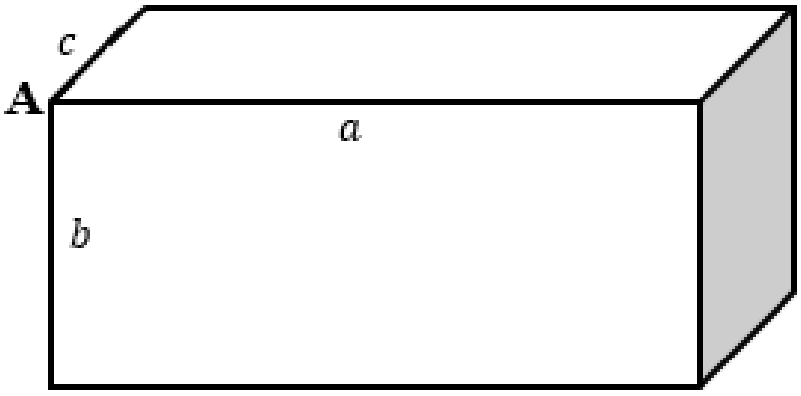
29. (M. 3,5 ball)

YIL	Ahmad	Eshmad	Toshmad
1980	X	4	6
1998	$Y + Z - 24$	Y	Z
2012	c	a	b

Yuqorida berilgan jadvalda Ahmad, Eshmad va Toshmadning berilgan yillarida ularning yoshlari keltirilgan bo‘lsa, u holda $|a - c| + 3b$ ni qiymatini toping?

A) 120 B) 118 C) 116 D) 114

30. (M. 3,5 ball) To‘g‘ri burchakli parallelipipedning har bir uchidan chiquvchi qirralari $a; b$ va c bo‘lib, ular $\frac{1}{a} + \frac{1}{b} + \frac{1}{c} = \frac{2}{5}$ tenglikni qanoatlantiradi. Agar parallelipiped to‘la sirtining yuzi 288 bo‘lsa, to‘g‘ri burchakli parallelipipedning $|S_{to'la} - V_{hajm}|$ qiymatining bo‘luvchilar sonini toping?



A) 12 B) 7 C) 10 D) 8