7 – sinf. Matematika. I-chorak. II-variant.

1. Тo’g’ri to’rtburchakning buyi 4 sm , eni bo’yidan 2,4 sm qisqa . Тo’g’ri to’rtburchakning yuzini toping .

 A) 6,4 sm2 B) 4,8 sm2 S) 5,4 sm2

2. Amallarni bajaring . ( 6 + 12 ) \* 3

 A) 42 B) 30 S) 54

3. a = 2 v = 3 bo’lganda 3a + 2 v – 7 algebraik ifodaning qiymatini toping .

 A) 5 B) 10 S) – 12

4. 2a + 3v bunda a = 3 v = -2 ifodaning qiymatini toping .

 A) 0 B) 12 S) -12

5. Qavslarni oching . a + ( 2v + 3s )

 A) a + 2 v – 3 s B) a – 2 v – 3s S) a + 2 v + 3 s

6. Soddalashtiring ( 5 a – 2 v ) – ( 3v – 5a)

 A) 8 av – 7 va B) 10 a – 6v S) 10 a + 6 v

7. Ifodaning son qiymatini toping . p = 2 ( a + v) a = 5 , v =7

 A) 70 B) 4 S) 8

8. Тenglamani yeching . x = 3

 A) 1,5 B) 6 S) 8

9. Тenglamani yeching 25x – 1 = 9

 A) 0,4 B) 32 S) 34

10. Sonli ifodaning qiymatini toping . () =

A)  B)  S) 

11. Qavslarni oching a+ ( 2v – 3s)

A) a+ 2v + 3s B) a + 2v – 3s S) a – 2 v -3s

12. Kasrlarni umumiy maxrajga keltiring . 

A)  B)  S) 

13. Тo’g’ri to’rtburchakning bo’yi 8 sm ga teng .Eni bo’yidan 1,5 sm qisqa. Тo’g’ri to’rtburchakning yuzini toping .

 A) 50 sm2 B) 60sm 2 S) 52 sm 2

14. Propotsiyaning noma’lum hadini toping. 3,5 : Х = 2,4 \*4,8

 A) 7 B) 64 S) 70

15. “Тiko” rusumli avtomobil 100 km masofaga 5 litr benzin sarflaydi. Bu avtomobil 50 km. masofaga qancha benzin sarflaydi.

 A) 7,5 B) 2,5 S) 6,5

16. Тenglamani yeching . 4x =16

 A) 4 B) 5 S) 8

17. Amallarni bajaring . 2,7 + ( 3,2+2,8 )

 A) 10,2 B) 9,7 S) 8,7

18. O’xshash xadlarni ixchamlang . 4a + 2 v + a –v

 A) 5 a + v B) va + v S) 8 a – v

19. 8 a+ 2 b v + a –v

 A) 9a + v B) 9a – v S) 9 a +v

20. a+ ( 2v – 3 s) qavsni oching .

 A) a- 2v – 3s B) a+ 2 v + 3 s S) a + 2v- 3s

21. a – ( 2v + 3 s) qavsni oching.

 A) a- 2v – 3s B) a + 2v + 3s S) a + 6 vs

22. Algebraik ifodani son qiymatini toping .

1) a + vs bunda a =1 v =2 s =3

 A) 7 B) 8 S) 9

23. a –vs bunda a = 2 ; v = 1 ; s = 3

 A) 9 B) 6 S) – 1

24. Тenglamani yeching 2 u + 3 =7

 A) 2 B) 3 S) 4

25. Тenglamani yeching . x +12 = 22

 A) 2 B) 32 S) 10

7 – sinf. Matematika. II-chorak. II-variant.

1. Umumiy ko’paytuvchini qavsdan chiqarish amali qaysi javobda to’g’ri ko’rsatilgan? 3 a – 3 x.

A. (3 a – 3 x) B. 3 ax C. 3 (a – x).

2. Aylana uzunligi nimaga teng?

A.  B.  C. 

3. 85 sm.ni diametrda ifodalang.

A. 85 dm. B. 8.5 dm. C. 0.85 dm.

4. Eng soda geometric shakl nima?

A. nuqta. B. vergul C. to’g’ri chiziq.

5. Ikkita nuqta orqali nechta to’g’ri chiziq o’tkazish mumkin ?

A. 3 ta. B. 2 ta. C. 1 ta.

6. Aylananing radiusi nimaga teng?

A.  B. d = 2R C. 

7. Ikkita parallel to’g’ri chiziqni qanday belgilaymiz?

A.  B. *a || b* C. **

8. Tenglamani yeching. .

A.  B. C.

   

9.Kastni qisqartiring: 

A. B.  C. 

10.Algebraik kasrning son qiymatini toping:  bo’lsa, 

A.  B.  C. 

11.Kasrlarni umumiy maxrajga keltiring: 

A.  B.  C. 

12. Algebraik kasrlarni qo’shish amali qaysi javobda to’g’ri keltirilgan?

A. B.  C. 

13.Birhadni boshqa birhadning kvadrati shaklida yozing: 9 a2.

A. 32a2  B. 33a2 C. 34a2

14.Birhadni darajaga ko’paytiring: (2a)3.

A. 2 a4 B. 23a3 C. 2a5

15. Birhadni boshqa birhadning kubi shaklida yozing: 27 a3.

A. 273a3 B. 93a3 C. 33a3

16. Birhadni ko’paytiring: (2a)(3b).

A. bab B. aba C. aab.

17. Ko’phadlar deb nimaga aytiladi?

A. Bir necha birhadning algebraik yig’indisi ko’phad deyiladi. B. Bir necha birhadlar ko’paytmasi ko’phad deyiladi.

C. Bir necha ko’phadlarning algebraik yig’indisi ko’phad deyiladi.

18. 2a3 + 3 ab bunda a = 1, b = 2 ko’phadni son qiymati qaysi jaobda to’g’ri ko’rsatilgan ?

A. 6. B. 8. C. 10

19.Har qanday ko’phadni qanday standart shakga keltirish mumkin?

A. Avval har bir hadini standart shaklda yozish, so’ngra o’xshash hadlarini ixchamlash kerak. B. Oldin o’xshash hadlarini ixchamlanadi. C. Javoblar noto’g’ri.

20. Uchburchakning yuzasini hisoblash formulasini ko’rsating.

 a

 b

A. S = 2 ab B.  C. 

21. a + 36 = 63. Tenglamani yeching.

A. 40. B. 27. C. 39.

22.< *50* tengsizlikning qanoatlantiruvchi natural sonlar ichidan eng kattasi qaysi?

A. 1 B. 11 C. 111.

23.Poezdning uzunligi 800 m. U ustun yonidan 40 sekundda o’tib ketdi. Poezdning tezligini toping.

A. 30 m/s. B. 15 m/s. C. 20 m/s.

24. Tenglamani yeching. 3 x2 – 9 x + 0

A.  B.  C. 

   

25.Tenglamani yeching. (x - 5)(x + 4) + 0.

A.  B.  C. 

   

7 – sinf. Matematika. III-chorak. II-variant.

1. Daraja shaklida yozing. 

 A. a23 B. a18 D. a16 E. a17  F. a12

2. Birhadlarni ko’paytiring. 

A. 1/2 a5 b6 x5 B. 1/2 a6 b8 x6 D. 1/3 a b2 x-1 E. 1/4 a b6x5  F. 1/2 a b2 x

3. <A= 550 37/ ; <B=190 48/ bo`lsa, < A + < B ni toping.

a) 75035/  b) 76025/  s) 74025/  d) 75025/

4. Ko’phadni standart shakliga keltiring. *3a2 b - 8b2 - 5a2b + 6b2 + 3a2b - 2c2 =*

A. *2 a2 b + 4b2* B. *a 2 b - 2 b2 – 2 c2*  D.*5 a2 b2 –2 b*  E. *3 a2 b - 3 c2*  F. *4 a2 - 5 c2*

5. Ko’phadning yig’indisini toping. *(3x2  - 2xy - y2 ) - (4 x2 + 3 xy + 2 y2 ) =*

A. *5x2  - 3 xy*; B.*4x2- 3xy+2y2*; D *–x2 - 5xy – 3y2*; E. *7x2 – 3 xy*; F. *5x2 - 3 xy +7 y2*

6. Ifodani soddalashtiring. 

A. –6 x+ 23 y B. –2 x+15 y D. – 8x + 18 y E. – 9 x – 37 y F. 7 x- 9 y

7. Tenglamani eching. 

A. ; B.  ; D. ; E. ; F. .

8. Ifodani soddalashtiring. (4a3b2)3 : (2a2b)2 =

 A. 16a5 b4 B. 12a3 b3 D. 16a2b4 E. 16a2b3 F. 8a5b4

9. Ko’paytuvchilarga ajrating. x (a - 2) + y(2 – a) + (a – 2) =

A. (a - 2)(x – 2y) B.(a - 2)(x-y+1) D.(a - 3) (x - 2) E.(a - 2) (y - 2) F. (a - 4) ( A - 2)

10 Hisoblang. 

A. 720 B. 680 D. 240 E. 320 F.744

11. Soddalashtiring. 

A. b2  B. 0 D. b3 E. b4 F. b5

12. Ikki son ayirmasining kvadratini toping. (6a - 4b)2 =

A. 36a2 – 48ab + 16b2  B. 12a2  - 8b2  D.36a2 - 16b2  E.12a - 16b

13. Amallarni bajaring , 3, 15 + ( 4,3 – 2, 18 ) =

A. 3, 5 B. 5, 27 D. 4,18 E. 6, 3 F. 7, 4

14. Algebralik ifodaning qiymatini toping 2a + 3 b = bunda a = 3 b = -2

A. 0 B. –2 D. 3 E. –4 F. 5

15. Ifodani son qiymatini toping.

A. 33 B. 35 D. 36 E. -33 F.-35

16. Har biri 25 so’mdan 12 ta daftar va har biri 7 so’mdan 20 ta qog’oz sotib olindi.

 Hamma harid qancha bo’ladi?

A. 580 B. 420 D. 450 E. 440 F. 300

17. Ildizi 5ga teng bo`lgan tenglamalarni ko`rsating.

 1. 4x – 12 = 8; 2. 3x + 12 = 18; 3. 7x + 3 = 38; 4. 3x- 5 = 2x;

A. (1;3;4;) B. (1;2;3); D. (2;3;4); E. (1:2;4); F. (2;3;3;).

18. Sonli ifodaning qiymatini toping. 

A. 72 B. 24 D. 32 E. 48 F. 54

19. Hisoblang 2, 18 – ( 1, 45 – 4, 8 – 0, 25) =

A. 4,54 B. 8, 4 D.- 6,25 E. 5, 78 F. 3, 4

20.Ifodani soddalashtiring va uni son qiymatini toping. 

A) 0,1 ; B) - 0,1; D) 1; E) –1; F) 2;

21. Tenglamani yeching. 

A. 6 B. 5 D. 8 E. –7 F. -2

22. Onasi 48 yoshda, qizi esa 18 yoshda. Necha yil oldin qizi onasidan 3 marta yosh bo’lgan?

A. 6 B. 2 D. 5 E. 4 F. 3

23.Tenglamani eching: 

A. x=15; B. x=12; D. x=10; E. x=9 ; F. x=11.

24. Ifodani daraja shaklida yozing. 

A.  B.  D.  E. F.

25. Ifodani qiymatini toping;

A.  B. ; D. ; E. ; F. ;

7 – sinf. Matematika. IV-chorak. II-variant.

1. Tenglamani eching. – x – 1 = x;

 A. x=-1; B. x=1; D. x=0,5; E. x= - 0,5; F. x = 2.

2. Ifodani soddalashtiring. 3(2x+1) + 5(1+3x);

 A. 21x - 8; B. 21x + 8 ; D. 11x + 8; E. 11x – 8; F. 22x + 7.

3. Ko’phadning son qiymatini toping 2a3 - 3ab + b2 bunda a = 0,2; b = 1/2

A. – 0,28 B. 0,25 D.-0,034 E. 1, 4 F. – 2,25.

4. < A= 970 ; < B= 120 53/  bo`lsa <A - < B ni toping .

A. 8407/  ; B. 8507/ ; D. 83051/  ; E. 8307/ ;F. 830 7/ ;

5. Ikkita to`g`ri chiziqning kesishmasidan hosil bo`lgan burchaklardan biri 600 bo`lsa qolgan burchaklarini toping.

A. 30;150;150; B. 40; 140;140; D. 50,130,130; E. 60,120,120; F. 65;120;120.

6. Ifodani asosida «a» bo’lgan daraja shaklida tuzing. 

A. a12 ; B. a10 ; D. a8 ; E. a9 ; F. a11.

7. Ikkihadlarni ko’paytiring. 

A. 3x2 + 2x + 4 B.4x2 + 5x – 2 D. 3x2 + 2x – 3 E. 3x2 – 5 F. 2x2 + x - 15

8. Otasi 32 yoshda o’gli esa 6 yoshda. Necha yildan keyin otasi o’g`lidan 3 marta katta bo’ladi?

 A. 5 yil; B. 8 yil; D. 7 yil; E. 6 yil; F. 9 yil.

9. Sonli ifodaning qiymatini toping; 

A.  B. ; D. ; E.  ; F. 

10. Tenglamani eching . 

A. x = 70; B. x = 50; D. x = 32; E. x = 60; F. x = 55.

11. Ikkihadning kvadratini ko’phad shaklida yozing (2x + 3y)2  =

A. 5x2 + 4xy + 6y2 B. 3x2 - 2xy + 4y2 D. 4x2 + 12 xy + 9y2 E.5x2 - 9 y2 F.4x2 + 9y2

12. Tenglamani eching. 

A. ildizga ega emas; B. cheksiz ko’p yechimga ega; D. x = 0 ; E. x = -1; F. x = 1.

13. Amallarni bajaring. 

A) 30 ; B) 40,5; D) 40 ; E) 30,5; F) 41;

14. Algebraik ifodaning son qiymatini toping. 

A. ; B. ; D. ; E. ; F. 

15. n = 2k + 1 formulada k = - 5 bo’lganda *n* ning quymatini toping .

A. –5 B. 8 D. –9 E. 0 F. -7

A. 37; B. 33; D. - 40; E. – 33; F. 40.

16. Ifodalarning son qiymatlarini taqqoslang.

 A. (a+b)2 <5ab; B. (a+b)2 >5ab; D. (a+b)2 =5ab; E. (a+b)2 >6ab; F. (a- b)2 >5ab;

17. A = 2n formulada A = 72 bo’lsa n ning qiymatini toping.

A. 36 B. 48 D. 24 E. 32 F. 60

18. .|----------------|-----------|---------| AB=16sm; AS=7sm; DB=4sm bo’lsa, SD kesmani toping.

 A S D B

 A. 6sm; B. 5sm; D.4sm; E. 7sm; F. 5,5sm;

19. Tenglamani eching: 

A. x=4 ; B. x=6; D. x=2; E. x=5; F. x=- 5;

20. Tenglamani yeching . 8 x – 3 = 5 x + 12

A. 6 B. 5 D. 8 E. 9 F. 12

21. Tenglamani eching: 

A. x=0; B. x=17; D. x= -17; E. yechimga ega emas; F. x= -0;

22. Zavod mashina ishlab chiqarish buyurtmasini 20 kunda bajarishi kerak edi. Lekin zavod har kuni rejalashtirilganidan tashqari 1ta mashina ortiq ishlab chiqarganligi sababli, muddatidan bir kun oldin buyurtmani bajaribgina qolmasdan, balki qoshimcha 4 ta ortiq mashina ishlab chiqargan. Zavod buyurtma bo’yicha nechta mashina ishlab chiqarishi kerak edi?

A. 300ta; B. 400ta; D. 404ta; E. 304ta; F. 3001 ta.

23. Ifodani soddalashtiring 

A. 18 B. 28 D. 32 E. 120 F. 645

24. Hisoblang:  ;

A. 2; B. 8; D. 4; E.16; F. 9.

25. Hisoblang. 

## A. 81 B. 27 D. 9 E. 3 F. 1

7 – sinf. Matematika. Yillik. II-variant.

1. Daraja shaklida yozing. 

 A. a23 B. a18 D. a16 E. a17  F. a12

2. Birhadlarni ko’paytiring. 

A. 1/2 a5 b6 x5 B. 1/2 a6 b8 x6 D. 1/3 a b2 x-1 E. 1/4 a b6x5  F. 1/2 a b2 x

3. <A= 550 37/ ; <B=190 48/ bo`lsa, < A + < B ni toping.

a) 75035/  b) 76025/  s) 74025/  d) 75025/

4. Ko’phadni standart shakliga keltiring. *3a2 b - 8b2 - 5a2b + 6b2 + 3a2b - 2c2 =*

A. *2 a2 b + 4b2* B. *a 2 b - 2 b2 – 2 c2*  D.*5 a2 b2 –2 b*  E. *3 a2 b - 3 c2*  F. *4 a2 - 5 c2*

5. Ko’phadning yig’indisini toping. *(3x2  - 2xy - y2 ) - (4 x2 + 3 xy + 2 y2 ) =*

A. *5x2  - 3 xy*; B.*4x2- 3xy+2y2*; D *–x2 - 5xy – 3y2*; E. *7x2 – 3 xy*; F. *5x2 - 3 xy +7 y2*

6. Ifodani soddalashtiring. 

A. –6 x+ 23 y B. –2 x+15 y D. – 8x + 18 y E. – 9 x – 37 y F. 7 x- 9 y

7. Ikkihadlarni ko’paytiring. 

A. 3x2 + 2x + 4 B.4x2 + 5x – 2 D. 3x2 + 2x – 3 E. 3x2 – 5 F. 2x2 + x - 15

8. Otasi 32 yoshda o’gli esa 6 yoshda. Necha yildan keyin otasi o’g`lidan 3 marta katta bo’ladi?

 A. 5 yil; B. 8 yil; D. 7 yil; E. 6 yil; F. 9 yil.

9. Sonli ifodaning qiymatini toping; 

A.  B. ; D. ; E.  ; F. 

10. Tenglamani eching . 

A. x = 70; B. x = 50; D. x = 32; E. x = 60; F. x = 55.

11. Ikkihadning kvadratini ko’phad shaklida yozing (2x + 3y)2  =

A. 5x2 + 4xy + 6y2 B. 3x2 - 2xy + 4y2 D. 4x2 + 12 xy + 9y2 E.5x2 - 9 y2 F.4x2 + 9y2

12. Tenglamani eching. 

A. ildizga ega emas; B. cheksiz ko’p yechimga ega; D. x = 0 ; E. x = -1; F. x = 1.

13. Тo’g’ri to’rtburchakning bo’yi 8 sm ga teng .Eni bo’yidan 1,5 sm qisqa. Тo’g’ri to’rtburchakning yuzini toping .

 A) 50 sm2 B) 60sm 2 S) 52 sm 2

14. Propotsiyaning noma’lum hadini toping. 3,5 : Х = 2,4 \*4,8

 A) 7 B) 64 S) 70

15. “Тiko” rusumli avtomobil 100 km masofaga 5 litr benzin sarflaydi. Bu avtomobil 50 km. masofaga qancha benzin sarflaydi.

 A) 7,5 B) 2,5 S) 6,5

16. Тenglamani yeching . 4x =16

 A) 4 B) 5 S) 8

17. Amallarni bajaring . 2,7 + ( 3,2+2,8 )

 A) 10,2 B) 9,7 S) 8,7

18. O’xshash xadlarni ixchamlang . 4a + 2 v + a –v

 A) 5 a + v B) va + v S) 8 a – v

19.Har qanday ko’phadni qanday standart shakga keltirish mumkin?

A. Avval har bir hadini standart shaklda yozish, so’ngra o’xshash hadlarini ixchamlash kerak.

B. Oldin o’xshash hadlarini ixchamlanadi. C. Javoblar noto’g’ri.

20. Uchburchakning yuzasini hisoblash formulasini ko’rsating.

 a

 b

A. S = 2 ab B.  C. 

21. a + 36 = 63. Tenglamani yeching.

A. 40. B. 27. C. 39.

22.< *50* tengsizlikning qanoatlantiruvchi natural sonlar ichidan eng kattasi qaysi?

A. 1 B. 11 C. 111.

23.Poezdning uzunligi 800 m. U ustun yonidan 40 sekundda o’tib ketdi. Poezdning tezligini toping.

A. 30 m/s. B. 15 m/s. C. 20 m/s.

24. Tenglamani yeching. 3 x2 – 9 x + 0

A.  B.  C. 

   

25.Tenglamani yeching. (x - 5)(x + 4) + 0.

A.  B.  C. 

   

Kalit. II-variant.

7 – sinf. Matematika. I-chorak.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| A | S | A | A | S | B | A | A | A | A | B | A | S | A | B | A | S | A | A | S | A | A | S | A | S |

7 – sinf. Matematika. II-chorak.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| C | A | B | A | C | A | B | B | A | C | A | A | A | B | C | A | A | B | A | B | B | B | C | B | A |

7 – sinf. Matematika. III-chorak.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| A | A | S | B | D | E | B | A | B | F | B | A | B | A | E | E | A | D | E | D | B | F | B | D | D |

7 – sinf. Matematika. IV-chorak.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| E | B | D | A | E | E | F | D | A | E | D | B | D | E | D | A | A | B | E | B | E | A | F | D | D |

7 – sinf. Matematika. Yillik.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| A | A | S | B | D | E | F | D | A | E | D | B | S | A | B | A | S | A | A | B | B | B | C | B | A |