Matematika

1. **Amallarni bajaring.**

34,8*0,5-(9,8+1,4)*0,2+0,6*(24,3-18,8)

A) 28,46 B)18,46 C)18,36 D)19,46

2.Амалларни бажаринг

$(6{,}72 : \frac{3}{5} + 1\frac{1}{8} \cdot 0{,}8) : 1{,}21 - 6\frac{3}{8}$

A) $3\frac{3}{8}$ B) $3\frac{5}{8}$ C) $30\frac{6}{8}$ D) $30\frac{3}{8}$

3.**Тенгламани ечинг**

(x-7756)-12000=4896

A)24656 **B)24652** C)9140 D)10140

4.Тенгламани ечинг

x-9987768=25609

A)9962158 B)10013477 C)10013377 D)1013377

5. Proporsiyaning noma'lum hadini toping

$\frac{x}{36} = \frac{14}{42}$

A)12 B)16 C)72 D)3

6.Berilgan sonni protsentini toping.

Qanday sonning 15%i 84 ga teng.

A)1260 B)740 C) 560 D)12600

7.Tenglamani yeching

2x+9=13-x

A) $1\frac{1}{3}$ B)$2\frac{1}{3}$ C) $\frac{6}{5}$ D) $\frac{1}{3}$

8. Tenglamalar sistemasini yeching

$$\begin{cases} Y = 4x \\ Y - 3 = x \end{cases}$$

A)x=1, y=4 B) x=-1, y=4 C) x=1, y=-4 D) x=-1, y=-4

9.Masalani yeching

1) Uchburchak perimetri 16 sm. Uhcburchakning ikki tomoni bir biriga teng bo'lib, ularning har biri uchunchi tomonidan 2,9 sm ortiq. Chburchakning tomonlfri necha santimetrdan.

A)5,8 B)4,6 C)3,4 D)2,6

10. Hisoblang

$$\sqrt{8\frac{1}{6} * 4\frac{1}{6}}$$

A) $2\frac{1}{3}$ B) $5\frac{5}{6}$ C) $\frac{1}{6}$ D) $5\frac{1}{3}$

Fizika

1.Tekis o'zgaruvchan harakatda bosib o'tilgan yo'lni hisoblash formulasini ko'rsating.

A) $\mathbf{S=v_0t+\frac{at^2}{2}}$ B) $h=v_0t+\frac{gt^2}{2}$ C) $s=v_{o'r}t$ D)$V=\frac{s}{t}$

2. Radiusi 0,5 m bo'lgan charxpalak chelagi 1,5 m/sek chiziqli tezlik bilan aylanmoqda. Charxpalak burchak tezligini toping.

A)3 rad/s B) 4 rad/s C)2 rad/s D) 5rad/s

3. Ikkita nuqtaviy elektr zaryadlarning o'zaro ta'sir kuchi, shu zaryadlarning miqdorlariga to'g'ri proporsional va ular orasidagi masofaning kvadratiga teskari proporsional. Bu qaysi qonun?

A) butun olam tortishish qonuni B)Faradey qonuni C) **Kulon qonuni** D)Om qonuni

4. Moddaning ichki energiyasini issiqlik berish yoki olish orqali o'zgartirish jarayoni nima deyiladi?

A)issiqlik miqdori B)issiqlik sig'imi C)issiqlik almashinish **D)issiqlik uzatish**

5. Yerga yaqinlashib kelib, havoda yorug’ iz qoldirib uchadigan, yer sirtiga yetib kelmay yonib ketadigan mayda osmon jismlari nima deb ataladi?

A)kometa **B)meteorlar** C)meteoritlar D)asteroid

6. Termodinamikaning I-qonuni formulasini ko’rsating.

A)Q=A B**)Q= ΔU+A** C) Q= ΔU+pΔV D) ΔU =CΔT

7. Jism birinchi kosmik tezlikda qanday harakatlanadi?

A)Oy atrofida aylanadi B)**Yerning suniy yo’ldoshiga aylanadi**
C)Quyosh atrofida aylanadi D)Quyosh sistemasidan chiqib ketadi

8. Aylanma harakat qilayotgan jismni kinetik energiyani hisoblash formulasini ko’rsating.

A) $E_k=\frac{mv^2}{2}$ **B) $W_k=\frac{mv^2}{2}$** C) $W_k=\frac{jw^2}{2}$ D) $W_k=qEd$

9. Boyl-Mariott qonunini ko’rsating.

A)P*V=const B)P*m=const C)m*V=const D)$v=v_0(1+\alpha t)$

10. Massasi 50g bo’lgan jism yerga erkin tushmoqda. jismga ta’sir etayotgan kuchni toping. $g=10m/s^2$ deb oling.

A)5N B)50N C)0,05N **D) 0,5N**