

**5-sinf Matematika fanidan o'quvchilarni  
mustaqil tayyorlanishlari uchun imtihon  
biletlariga javoblar**

**2020-2021-yil**

**Bosha imtihon javoblari [www.mbaza.uz](http://www.mbaza.uz)  
saytida**

## I TOPSHIRIQ

### 1-VARIANT

1.  $(7^2:200-0,4^2):0,5^3=(0,245-0,16):0,125=0,085:0,125=\underline{\underline{0,68}}$

2.  $(x-375):18=2064:48$

$$x-375=43 \cdot 18$$

$$x-375=774$$

$$\underline{\underline{x=1149}}$$

3. 416 - 32%

$$x \quad - \quad 100\%$$

$$x = \frac{416 \cdot 100}{32} = \mathbf{1300 \text{ ta}}$$

4. 450 kg = 0.45 t  $\approx$  0,5 t

$$28 \text{ s } 5 \text{ kg} = 0,285 \text{ t} \approx 0,3 \text{ t}$$

$$3 \text{ t } 4 \text{ s } 25 \text{ kg} = 3,425 \text{ t} \approx 3,4 \text{ t} \quad \frac{0.5+0.3+3.4}{3} = \mathbf{1.4 \text{ t}}$$

5.  $l=12a \rightarrow 72 = 12a \rightarrow a = 6 \text{ cm}$

$$V = a^3 \rightarrow (6 \text{ cm})^3 = 216 \text{ cm}^3$$

$$m = 216 \cdot 8,9 \text{ g} = \mathbf{1924,4 \text{ g}}$$

### 2-VARIANT

1.  $13.5 \cdot 5.8 + 4.2 \cdot 13.5 + 8.3 \cdot 4.2 + 5.8 \cdot 8.3 = 13.5(5.8+4.2) + 8.3(4.2+5.8) =$   
 $= 13.5 \cdot 10 + 8.3 \cdot 10 = 10(8.3+13.5) = 10 \cdot 21.8 = \mathbf{218}$

2.  $(2035 - x) \cdot 4 = 4004$

$$2035 - x = 1001$$

$$x = 2035 - 1001$$

$$\underline{\underline{x = 1034}}$$

3. 800 - 100%

$$x \quad - \quad 60\%$$

$$x = \frac{800 \cdot 60}{100} = \mathbf{480 \text{ kg}}$$

4. 8 m 7 cm 3 mm = 8.073 m  $\approx$  8.07 m

$$47 \text{ cm } 6 \text{ mm} = 0.476 \text{ m} \approx 0.48 \text{ m}$$

$$25 \text{ mm} = 0.025 \text{ m} \approx 0.03 \text{ m} \quad \frac{8.07+0.48+0.03}{3} = \mathbf{2.86 \text{ m}}$$

5.  $V=abc=30 \cdot 20 \cdot 10=6000 \text{ cm}^3=6 \text{ dm}^3$

$$3 \cdot 6 \text{ dm}^3 = \underline{\underline{18 \text{ dm}^3}}$$

## II TOPSHIRIQ

### 1-VARIANT

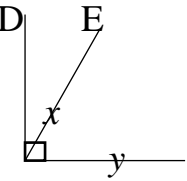
1. a)  $\frac{18}{19} - \frac{7}{19} + \frac{3}{19} = \frac{18-7+3}{19} = \frac{14}{19}$       b)  $\frac{11}{15} - \left(\frac{3}{15} + \frac{7}{15}\right) = \frac{11-(3+7)}{15} = \frac{1}{15}$

2. a) 3.456; 3.465; 8.079; 8.149.       $8.079 \cdot 8.149 = \underline{65.835771}$   
b) 0.08; 0.037; 0.0082; 0.0044.       $0.0082 \cdot 0.0044 = \underline{0.00003608}$

3.  $(18-16.9) \cdot 3.3 + 3:7.5 = 1.1 \cdot 3.3 + 0.4 = 3.63 + 0.4 = \underline{4.03}$

4.  $v_{oqim} = 0.9 \text{ km/h}$        $v_{qayiq} = 3.2 \text{ km/h}$        $v_{oqim \text{ bo'ylab}} = 3.2 + 0.9 = \underline{4.1 \text{ km/h}}$

5.  $x = 0.4 \cdot 90^\circ = 36^\circ$   
 $y = 90^\circ - 36^\circ = 54^\circ$



C                      M

### 2-VARIANT

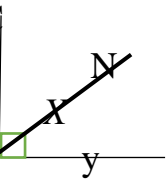
1. a)  $\frac{17}{25} - \frac{9}{25} + \frac{4}{25} = \frac{17-9+4}{25} = \frac{12}{25}$       b)  $\frac{18}{19} - \left(\frac{8}{19} + \frac{7}{19}\right) = \frac{18-(8+7)}{19} = \frac{3}{19}$

2. a)  $\frac{2}{17}; \frac{5}{17}; \frac{10}{17}; \frac{11}{17}$       b) 2.1; 2.06; 0.58; 0.5.       $0.58 \cdot 0.5 = 0.29$ .

3.  $(21 - 18.3) \cdot 6.6 + 3:0.6 = 2.7 \cdot 6.6 + 5 = 22.82$

4.  $v_{oqim \text{ bo'ylab}} = 39.1 \text{ km/h}; v_{qayiq} = 36.5 \text{ km/h}$   
 $v_{oqim} = 39.1 - 36.5 = 2.6 \text{ km/h}$        $v_{oqimga \text{ qarshi}} = 36.5 - 2.6 = 33.9 \text{ km/h}$

5.  $y = 0.8 \cdot 90^\circ = 72^\circ$   
 $x = 90^\circ - 72^\circ = 18^\circ$



M                      D

## III TOPSHIRIQ

### 1-VARIANT

1.  $(1350:45 - 15) \cdot (48+77) = 15 \cdot 125 = 1875$

2.  $7\frac{3}{5} - y = 5\frac{2}{5} \rightarrow y = 7\frac{3}{5} - 5\frac{2}{5} \rightarrow y = 2\frac{1}{5}$

3.  $(21 - 18.3) \cdot 6.6 + 3:0.6 = 2.7 \cdot 6.6 + 5 = 22.82$

4.  $\frac{10.8+9.4+9.2}{3} = \frac{29.4}{3} = 9.8 \text{ km/h}$

5.  $60-20=40 \text{ cm}$        $150 \cdot 60 = 9000 \text{ cm} = 90 \text{ m}$        $175 \cdot 40 = 7000 \text{ cm} = 70 \text{ m}$   
 $S = a \cdot b = 90 \cdot 70 = 6300 \text{ m}^2$        $P = 2(a+b) = 2(90+70) = 2 \cdot 160 = 320 \text{ m}$

### 2-VARIANT

1.  $(18+12 \cdot 27) : (327-156) = 342:171 = 2$

2.  $3\frac{8}{9} - y = 2\frac{7}{9} \rightarrow y = 3\frac{8}{9} - 2\frac{7}{9} \rightarrow y = 1\frac{1}{9}$

3.  $(18-16.9) \cdot 3.3 + 3:7.5 = 1.1 \cdot 3.3 + 0.4 = 3.63 + 0.4 = \underline{4.03}$

4.  $\frac{28.5+32.6+35.2}{3} = \frac{96.3}{3} = 32.1 \text{ kg}$

5.  $P = 360 \text{ m}; a = 50 \cdot 200 = 10000 \text{ cm} = 100 \text{ m} \rightarrow 360 = 2(a+b) \rightarrow 180 = 100 + b \rightarrow b = 80 \text{ m}$   
 $80 \text{ m} : 40 \text{ cm} = 8000 \text{ cm} : 40 \text{ cm} = 200 \text{ qadam}$

## V TOPSHIRIQ

### 1-VARIANT

1. a)  $8\frac{7}{9} + \left(7\frac{5}{9} - 4\frac{4}{9}\right) = 8\frac{7}{9} + 3\frac{1}{9} = 11\frac{8}{9}$ . b)  $11\frac{2}{19} - \left(3\frac{17}{19} + 6\frac{14}{19}\right) = 11\frac{2}{19} - 10\frac{12}{19} = \frac{9}{19}$

2.  $3.8(x+1.3)=9.5$

$$x+1.3=2.5$$

$$x=1.2$$

3.  $26.4+(26.4-8.7)+26.4:2=26.4+17.7+13.2=57.3$  kg

4. 4 ni 3 ga o'zgartirish kerak, ya'ni 8, 3, 6, 8, 9, 5, 7, 8, 9     $9 - 3 = 6$

5.  $a=60\text{cm}$   $b=45\text{cm}$   $h=45-5=40\text{cm}$                        $h'=30\text{cm}$ ,  $V_{\text{akvarium}}=60\cdot 45\cdot 30=81\text{dm}^3=\underline{\underline{811}}$

### 2-VARIANT

1.  $8.1:0.27+45\cdot 0.12 - 16.9=30+5.4-6.9=18.5$

2. a)  $y - 2\frac{1}{5} = 5\frac{2}{5} \rightarrow y = 5\frac{2}{5} + 2\frac{1}{5} \quad y = 7\frac{3}{5}$

b)  $\left(3\frac{9}{13} + y\right) - 4\frac{9}{13} = 1\frac{7}{13} \rightarrow 3\frac{9}{13} + y = 6\frac{3}{13} \rightarrow y = 2\frac{7}{13}$

3.  $26.4+(26.4+1.2)=26.4+27.6=54\text{dm}$

4. 89; 96; 88; 84; 80; 76

5.  $a=30\text{cm}$   $b=40\text{cm}$   $h=50\text{cm}$  |  $h'=30\text{cm} \rightarrow V'=30\cdot 40\cdot 30=36000\text{cm}^3=36\text{dm}^3=36\text{l}$   
 $36\text{l} : 2\text{l} = \underline{\underline{18 \text{ marta}}}$

## V TOPSHIRIQ

### 1-VARIANT

1.  $\frac{(a+b)h}{2} = \frac{(23+17)15}{2} = \frac{40 \cdot 15}{2} = 20 \cdot 15 = 300$

2.  $5.7x - (4 - 3.1x) = 84$

$$5.7x - 4 + 3.1x = 84$$

$$8.8x = 88$$

$$x = 88 : 8.8$$

$$\underline{x=10}$$

3. 20 kg - 100%

x - 95%

$$x = \frac{20 \cdot 95}{100} = 19 \text{ kg}$$

4. 1)  $40:2=20$  2)  $40-20=20$  3)  $20:2=10$  4)  $20-10=10$

40 - 100%

10 - x%       $x = \frac{10 \cdot 100}{40} = 25\%$

5.  $b=360:24=15 \text{ cm}$     $a=24 \text{ cm}$     $P=2(15+24)=2 \cdot 39=78 \text{ cm}$     $3P=78 \cdot 3=234 \text{ cm}$

$$P_{\text{kvadrat}}=4a=234 \text{ cm} \quad a=58.5 \text{ cm}$$

### 2-VARIANT

1.  $\frac{(a^2+b)}{h} = \frac{(10^2+8)}{9} = \frac{108}{9} = 12$

2.  $94.2x - (49.5 - 93x) = 6.66$

$$94.2x - 49.5 + 93x = 6.66$$

$$187.2x = 56.16$$

$$x = 0.3$$

3. 12 kg - 100%

x kg - 6%       $x = \frac{12 \cdot 6}{100} = 0.72 \text{ kg}$

4. daftar=x      qalam=y

$$\begin{cases} 4x + 3y = 3300 \\ x + 2y = 1200 \end{cases} \cdot 4$$

$$\begin{cases} 4x + 3y = 3300 \\ 4x + 8y = 4800 \end{cases}$$

$$4x + 3 \cdot 300 = 3300 \rightarrow 4x = 2400 \rightarrow x = 600$$

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$$5y = 1500$$

$$y = 300$$

**Javobi: 1 ta daftar – 600 so'm, 1 ta qalam**

**– 300 so'm**

5.  $S_{\text{to'rtburchak}} = 540 \text{ cm}^2$

$$a=18 \text{ cm} \quad S=ab \rightarrow 540=18 \cdot b \rightarrow b=30 \text{ cm.}$$

$$3P=4c \rightarrow 3 \cdot 2(a+b)=4c \rightarrow 6(18+30)=4c \rightarrow 6 \cdot 48=4c \rightarrow \underline{\underline{c=72 \text{ cm}}}$$

