



2016-2017-O'QUV YILIDA UMUMIY  
O'RTA TA'LIM MAKTABLARINING  
5-SINF O'QUVCHILARI UCHUN  
MATEMATIKA FANIDAN  
IMTIHON MATERIALLARI  
UCHUN TAVSIYALAR

**Diqqat!** Eslatib o'tamiz, mazkur javoblar sizni vaqtingizni tejashga va imtihonlarga esa ko'proq tayyorlanish uchun yordam beradi. Vaqtni qo'ldan boy bermang, tayyorgarlikni hozirdan boshlang!



## 5-sinf Matematika

### I topshiriq

#### 1 variant

1. 99996

$$2. \text{ a) } 9\frac{13}{19} + \left(8\frac{13}{19} - 3\frac{15}{19}\right) = 9\frac{13}{19} + \left(4 + \left(1\frac{13}{19} - \frac{15}{19}\right)\right) = 9\frac{13}{19} + \left(4 + \frac{32-15}{19}\right) = 9\frac{13}{19} + 4\frac{17}{19} = 13\frac{30}{19} = 14\frac{11}{19}$$

$$\text{ b) } 10\frac{4}{21} - \left(4\frac{10}{21} + 3\frac{19}{21}\right) = 10\frac{4}{21} - 7\frac{29}{21} = 10\frac{4}{21} - 8\frac{8}{21} = 1 + \left(1\frac{4}{21} - \frac{8}{21}\right) = 1 + \frac{25-8}{21} = 1\frac{17}{21}$$

3. Berilgan:

$$v_{kater} = 15\text{km/soat}$$

$$v_{daryo} = 2\text{km} \\ \text{/soat}$$

$$t_{oqim\ boryicha} = 2\ \text{soat}$$

$$t_{oqimga\ qarshi} = 3\ \text{soat}$$

$$S_{umumiy} = ?$$

**Yechish:**

$$v_{oqim\ boryicha} = 15 + 2 = 17(\text{km/soat})$$

$$v_{oqimga\ qarshi} = 15 - 2 = 13(\text{km/soat})$$

$$S_{oqim\ bo'yicha} = 17 \cdot 2 = 34(m)$$

$$S_{oqimga\ qarshi} = 13 \cdot 3 = 39(m)$$

$$S_{umumiy} = 34 + 39 = 73(m)$$

$$\text{Javob: } S_{umumiy} = 73(m)$$

$$4. 4,2 \cdot (0,25 + x) = 1,27$$

$$0,25 + x = 1,27 : 4,2$$

$$0,25 + x = 0,35$$

$$x = 0,35 - 0,25$$

$$x = 0,1$$

5.

**Berilgan**

:

$$S = 6ar$$

$$a = 20m$$

$$b = ?$$

**Yechish:**

$$6ar = 600m$$

$$S = a \cdot b \quad b = S : a$$

$$b = 600 : 20 = 30(m)$$

**Javob:**  $b =$

$$30m$$

## 2 Variant

1. 99997

$$2. a) 8\frac{7}{9} + \left(7\frac{5}{9} - 4\frac{4}{9}\right) = 8\frac{7}{9} + \left(3 + \left(\frac{5-4}{9}\right)\right) = 8\frac{7}{9} + 3\frac{1}{9} = 11\frac{8}{9}$$

$$b) 11\frac{2}{19} - \left(3\frac{17}{19} + 6\frac{14}{19}\right) = 11\frac{2}{19} - 9\frac{31}{19} = 11\frac{2}{19} - 10\frac{12}{19} =$$

$$1\frac{2}{19} - \frac{12}{19} = \frac{21-12}{19} = \frac{9}{19}$$

3. **Berilgan:**

$$v_{kater} = 12 \text{ km/soat}$$

$$v_{daryo} = 3 \text{ km} \\ \text{/soat}$$

$$t_{oqim \text{ bo'yicha}} = 3 \text{ soat}$$

$$t_{oqimga \text{ qarshi}} = 5 \text{ soat}$$

$$S_{umumiy} = ?$$

**Yechish:**

$$v_{oqim\ boryicha} = 12 + 3 = 15(km/soat)$$

$$v_{oqimga\ qarshi} = 12 - 3 = 9(km/soat)$$

$$S_{oqim\ bo'yicha} = 15 \cdot 3 = 45(m)$$

$$S_{oqimga\ qarshi} = 9 \cdot 5 = 45(m)$$

$$S_{umumiy} = 45 + 45 = 90(m)$$

**Javob:**  $S_{umumiy} = 90(m)$

4.  $3,8 \cdot (x + 1,3) = 9,5$

$$x + 1,3 = 9,5 : 3,8$$

$$x + 1,3 = 2,5$$

$$x = 2,5 - 1,3$$

$$x = 1,2$$

5.

**Berilg**

**an:**

$$S =$$

$$12ar$$

$$a =$$

$$30m$$

$$b = ?$$

**Yechish**

:

$$12ar = 1200$$

$$m^2$$

$$S = a \cdot b \quad b = S : a$$

$$b = 1200 : 30 = 40(m)$$

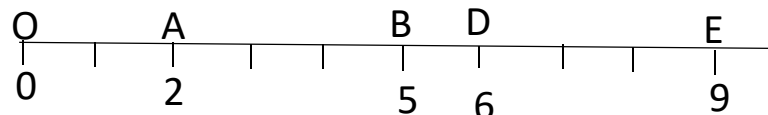
**Javob:**  $b =$

$$40m$$

**II topshiriq**

**1 Variant**

1.



A(2), B(5), D(6), E(9).

2. a)  $5m + 6m = 231$

$$11m =$$

$$231$$

$$m =$$

$$231:11$$

$$m = 21$$

b)  $7x - 3x = 412$

$$4x = 412$$

$$x = 412:4$$

$$x = 103$$

3.

**Berilgan:**

Yashikda - 120kg

arpa

Olindi - 1

qop arpa

Qoldi - 65%

arpa

Qopga - ? kg

arpa

**Yechish:**

$$1) 120:100 = 1,2(kg)$$

$$2) 100\% - 65\% = 35\%$$

$$3) 1,2 \cdot 35 = 42(kg)$$

**Javob:** Qopga 42kg arpa

solingan.

4.

$$\begin{aligned} 0,81:2,7 + 4,5 \cdot 0,12 - 0,69 &= 0,3 + 0,54 - 0,69 \\ &= 0,84 - 0,69 = 0,15 \end{aligned}$$

5.

**Berilgan:**

**Yechish:**

$$78:3$$

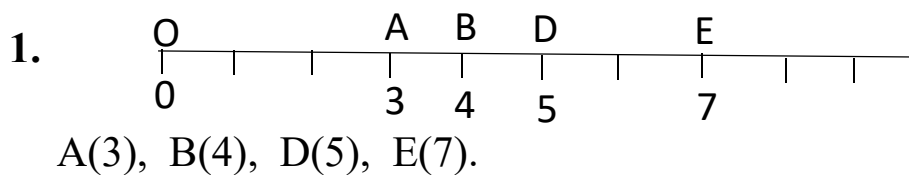
$$= 26(sm)$$

Bo'yi = 78sm  
Eni = bo'yidan 3 marta  
qisqa  
 $S = ? ; P = ?$ .

$$P = 2 \cdot (26 + 78) = 2 \cdot 104 = 208$$
$$S = 78 \cdot 26 = 2028(sm)$$

**Javob:**  $S = 2028 (sm)$   
 $P = 208 (sm)$

### 2 variant



2. a)  $4x + 7x = 132$

$$11x =$$

$$132$$

$$x =$$

$$132:11$$

$$x = 12$$

b)  $5m - 3m = 222$

$$2m = 222$$

$$m = 222:2$$

$$m = 111$$

3.

**Berilgan:**

Yashikda - 120kg

guruch

Qoldi - 25%

guruch

Olingan - ? kg

guruch

**Yechish:**

1)  $120:100 = 1,2(kg)$

2)  $100\% - 25\% = 75\%$

3)  $1,2 \cdot 75 = 90(kg)$

**Javob:** 90kg guruch  
olingan.

4.  $0,56:1,4 + 8,6 \cdot 0,15 - 0,15 = 0,4 + 1,29 - 0,15 = 1,69 - 0,15 = 0,54$

5.

**Berilgan:**

$$\text{Eni} = 18\text{sm}$$

Bo'yi = enidan 4 marta  
uzun

$$S = ? ; P = ?.$$

**Yechish:**

$$18 \cdot 4$$

$$= 72(\text{sm})$$

$$P = 2 \cdot (18 + 72) = 2 \cdot 90 \\ = 180(\text{sm})$$

$$S = 72 \cdot 18 =$$

$$1296(\text{sm})$$

**Javob:**  $S = 1296 (\text{sm})$

$$P = 180(\text{sm})$$

### III topshiriq

#### 1 variant

1. a)  $73847 \approx 74000$

b)  $65237 \approx 65200$

d)  $578299 \approx 578000$

2.  $k = 754, m = 258$

$$((823 - k) + m) = ((823 - 754) + 258) = 69 + 258 = 327$$

3.

**Berilgan:**

3,6kg dan – 10 ta yashik

3,2kg dan – 40 ta yashik

Har bir yashikda o'rtacha - ?  
kg

**Yechish:**

$$1) 10 \cdot 3,6 = 36(\text{kg})$$

$$2) 40 \cdot 3,2 = 128(\text{kg})$$

$$3) 40 + 10 = 50(\text{ta})$$

$$4) 36 + 128 = 164(\text{kg})$$

$$5) 164 : 50 = 3,28(\text{kg})$$

**Javob:** Har bir yashikda

o'rtacha

3,28 kg dan olma bor.

4. a)  $x - 1\frac{5}{7} = 2\frac{1}{7}$

$$x = 2\frac{1}{7} + 1\frac{5}{7}$$

$$x = 3\frac{6}{7}$$

b)  $(12\frac{5}{13} + y) - 9\frac{9}{13} = 7\frac{7}{13}$

$$12\frac{5}{13} + y = 7\frac{7}{13} + 9\frac{9}{13}$$

$$12\frac{5}{13} + y = 17\frac{3}{13}$$

$$y = 17 \frac{3}{13} - 12 \frac{5}{13}$$

$$y = 4 + \frac{16-5}{13}$$

$$y = 4 \frac{11}{13}$$

5.

**Berilgan:**

Eni = 3,8 m

Bo'yi = enidan 0,7 m ga uzun

Balandligi = bo'yidan 1,5

marta qisqa

Hajm = ?

**Yechish:**

$$3,8 + 0,7 = 4,5(m)$$

$$4,5 : 1,5 = 3(m)$$

$$V = 3,8 \cdot 4,5 \cdot 3 \\ = 51,3(m^3)$$

**Javob:** Hajm = 51,3 m<sup>3</sup>

## 2 variant

1. a) 147827 ≈ 148000

b) 24869 ≈ 24900

d) 586382 ≈ 590000

2. a = 549, b = 193

$$(654 + a) - b = (654 + 549) - 193 = 1203 - 193 \\ = 1010$$

3.

**Berilgan:**

3 kun – 0,9 t dan

2 kun – 1,3 t dan

1 kunda o'rtacha - ? kg

**Yechish:**

1) 3 · 0,9 = 2,7(t)

2) 2 · 1,3 = 2,6(t)

3) 3 + 2 = 5(kun)

4) 2,7 + 2,6 = 5,3(t)

5) 5,3 : 5 = 1,06(t)

6) 1,06 tonna =

1060kg

**Javob:** 1 kunda

o'rtacha 1060 kg dan

4. a)  $y - 2 \frac{1}{5} = 5 \frac{2}{5}$

b)  $(3 \frac{9}{13} + y) - 4 \frac{9}{13} = 1 \frac{7}{13}$



$$y = 5\frac{2}{5} + 2\frac{1}{5}$$

$$y = 7\frac{3}{5}$$

$$3\frac{9}{13} + y = 1\frac{7}{13} + 4\frac{9}{13}$$

$$3\frac{9}{13} + y = 6\frac{3}{13}$$

$$y = 6\frac{3}{13} - 3\frac{9}{13}$$

$$y = 2 + \frac{16-9}{13}$$

$$y = 2\frac{7}{13}$$

**5. Berilgan:**

Bo'yi = 5m

Eni = bo'yidan 1,64m ga qisqa

Balandligi = enidan 1,8 marta qisqa

Hajm = ?

**Yechish:**

$$5 - 1,64 = 3,36$$

$$3,36 : 1,8 =$$

**IV topshiriq**

**1 variant**

1.  $49156 - 26012 = 23144$ .

26012 soni 49156 sonidan 23144 ga kichik.

$$26012 - 17381 = 8631$$

26012 soni 17381 sonidan 8631 ga katta.

2. a)  $\frac{6}{13} + \frac{4}{13} - \frac{8}{13} = \frac{6+4-8}{13} = \frac{2}{13}$

b)  $7\frac{13}{15} - \left(2\frac{7}{15} + 3\frac{4}{15}\right) = 7\frac{13}{15} - 5\frac{11}{15} = 2\frac{2}{15}$

d)  $\left(9\frac{12}{25} - 8\frac{16}{25}\right) + 4\frac{17}{25} = \frac{37-16}{25} + 4\frac{17}{25} = 4\frac{21+17}{25} = 4\frac{38}{25}$

3.

**Berilgan:**

$$t_{oqim\ boryicha} = 0,8\ soat$$

$$t_{oqimga\ qarshi} = 0,3\ soat$$

$$v_{qayiq} = 3,8\ km/soat$$

$$v_{oqim} = 1,3\ km/soat$$

$$S_{umumiy} = ?$$

**Yechish:**

$$v_{oqim\ boryicha} = 0,8 + 0,3 = 1,1\ (km/soat)$$

$$v_{oqimga\ qarshi} = 0,8 - 0,3 = 0,5\ (km/soat)$$

$$S_{oqim\ bo'yicha} = 1,1 \cdot 0,8 = 0,88\ (km)$$

$$S_{oqimga\ qarshi} = 0,5 \cdot 0,3 = 0,15\ (km)$$

$$S_{umumiy} = 0,88 + 0,15 = 1,03\ (km)$$

**Javob:**  $S_{umumiy} = 1,03\ km$

4.  $(4,5 - x) \cdot 5,8 = 8,7$

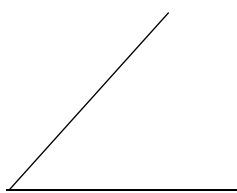
$$(4,5 - x) = 8,7 : 5,8$$

$$4,5 - x = 1,5$$

$$x = 4,5 - 1,5$$

$$x = 3$$

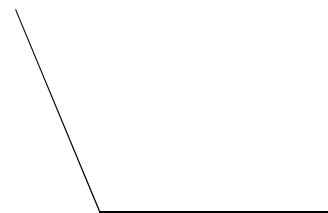
5.



$$\angle CAB = 53^\circ$$



$$\angle MNK = 90^\circ$$



$$\angle POE = 118^\circ$$

**2variant**

1.  $37123 - 27843 = 9280$

27843 soni 37123 sonidan 9280 ga kichik.

$$27843 - 11248 = 16595$$

27843 soni 11248 sonidan 16595 ga kata.

2. a)  $\frac{2}{9} + \frac{6}{9} - \frac{3}{9} = \frac{2+6-3}{9} = \frac{5}{9}$

b)  $8\frac{25}{27} - \left(3\frac{8}{27} + 2\frac{3}{27}\right) = 8\frac{25}{27} - 5\frac{11}{27} = 3\frac{14}{27}$

d)  $\left(8\frac{3}{17} - 7\frac{15}{17}\right) + 3\frac{16}{17} = \frac{20-15}{17} + 3\frac{16}{17} = 3\frac{5+16}{17} = 3\frac{21}{17}$

3.

**Berilgan:**

$t_{oqim\ boryicha} - 2,5\ soat$

$t_{oqimga\ qarshi} - 0,8soat$

$v_{kater} - 40km/soat$

$v_{oqim} - 2,2km/soat$

$S_{umumiy} - ?$

**Yechish:**

$$v_{oqim\ boryicha} = 2,5 + 0,8 = 3,3(km/soat)$$

$$v_{oqimga\ qarshi} = 2,5 - 0,8 = 1,7(km/soat)$$

$$S_{oqim\ bo'yicha} = 3,3 \cdot 2,5 = 8,25(km)$$

$$S_{oqimga\ qarshi} = 1,7 \cdot 0,8 = 1,36(km)$$

$$S_{umumiy} = 8,25 + 1,36 = 9,61(km)$$

**Javob:**  $S_{umumiy} = 9,61\ km$

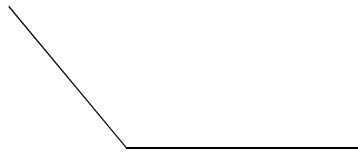
4.  $4,2 \cdot (0,25 + x) = 1,47$

$$0,25 + x = 1,47 : 4,2$$

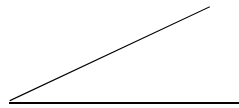
$$0,25 + x = 0,35$$

$$x = 0,35 - 0,25$$

$$x = 0,1$$



$$\angle BCA = 154^\circ$$



$$\angle KMN = 28^\circ$$



$$\angle OPE = 90^\circ$$

5.

### V topshiriq

#### 1 variant

1. a)  $35^2 - 34 \cdot 32 = 1225 - 1088 = 137$

b)  $(14 + 16^2) : 15 = (14 + 256) : 15 = 270 : 15 = 18$

2.  $a = 0,339$   $b = 0,12$

$$45,2 - a : b = 45,2 - 0,339 : 0,12 = 45,2 - 2,825 = 42,375$$

3.

#### **Berilgan:**

3 ta gulzor va yo'lkalarda – 46 ta atirgul

Yo'lkalarda – 16 ta atirgul

1 ta gulzorda - ? ta

#### **Yechish:**

$$46 - 16 = 30(\text{ta})$$

$$30 : 3 = 10(\text{ta})$$

**Javob:** 1 ta gulzorda 10ta atirgul bor

4.

$$\begin{aligned} \text{a) } \left(x + \frac{1}{7}\right) - \frac{4}{7} &= \frac{2}{7} \\ x + \frac{1}{7} &= \frac{2}{7} + \frac{4}{7} \\ x + \frac{1}{7} &= \frac{6}{7} \\ x &= \frac{6}{7} - \frac{1}{7} \\ x &= \frac{5}{7} \end{aligned}$$

$$\begin{aligned} \text{b) } \left(x - 1\frac{8}{9}\right) + 3\frac{7}{9} &= 4\frac{4}{9} \\ x - 1\frac{8}{9} &= 4\frac{4}{9} - 3\frac{7}{9} \\ x - 1\frac{8}{9} &= \frac{13 - 7}{9} \\ x - 1\frac{8}{9} &= \frac{6}{9} \\ x &= \frac{6}{9} + 1\frac{8}{9} \\ x &= 1\frac{14}{9} \\ x &= 2\frac{5}{9} \end{aligned}$$

5.

**Berilgan:**

$$P = 36 \text{ dm.}$$

$$CE = 15 \text{ dm}$$

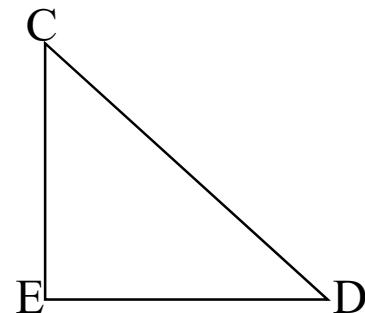
$ED = CE$  tomondan 3 marta qisqa

$$CD = ?$$

**Yechish:**  $CE = 15 : 3 = 5 \text{ (dm)}$

$$CD = 36 - (5 + 15) = 36 - 20 = 16 \text{ (dm)}$$

**Javob:**  $CD$  tomon 16 dm.



**2 variant**

1. a)  $28^2 - 27 \cdot 25 = 784 - 675 = 109$

b)  $(21^2 + 53) : 26 = (441 + 53) : 26 = 494 : 26 = 19$

2.  $a = 32,16; \quad b = 0,8$

$$45,2 - a : b = 45,2 - 32,16 : 0,8 = 45,2 - 40,2 = 5$$

3.

**Berilgan:**

5 kunda – 98 km suzdi

1-kuni – 22 km suzdi

qolgan kunlari – bir xil masofada s.

Qolgan har bir kunda - ? km

**Yechish:**

$$98 - 22 = 76(km)$$

$$76 : 4 = 19(km)$$

**Javob:** Qolgan har bir kunda 19 km dan suzgan.

4.

$$\begin{aligned} \text{a) } \frac{5}{9} + \left(x - \frac{2}{9}\right) &= \frac{7}{9} \\ x - \frac{2}{9} &= \frac{7}{9} - \frac{5}{9} \\ x - \frac{2}{9} &= \frac{2}{9} \\ x &= \frac{2}{9} + \frac{2}{9} \\ x &= \frac{4}{9} \end{aligned}$$

$$\begin{aligned} \text{b) } \left(x + 2\frac{9}{11}\right) - 4\frac{10}{11} &= 1\frac{4}{11} \\ x + 2\frac{9}{11} &= 1\frac{4}{11} + 4\frac{10}{11} \\ x + 2\frac{9}{11} &= 5\frac{14}{11} \\ x + 2\frac{9}{11} &= 6\frac{11}{11} \\ x &= 6\frac{11}{11} - 2\frac{9}{11} \\ x &= 3\frac{14-9}{11} \\ x &= 3\frac{5}{11} \end{aligned}$$

5.

**Berilgan:**

$$P = 80 \text{ sm.}$$

$$AB = 12 \text{ sm}$$

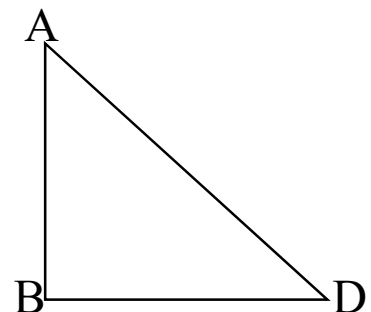
$BD = AB$  tomondan 3 marta uzun

$$AD = ?$$

**Yechish:**  $BD = 12 \cdot 3 = 36(sm)$

$$AD = 80 - (36 + 12) = 80 - 48 = 32(sm)$$

**Javob:**  $AD$  tomon 32 sm.



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