



,

2020/2021.



1. **1** .
2. **0,5** .
3. .
4. .
5. .
6. .
7. .
8. .
9. (1 / 0,5 ) . ,
10. ( , ) ,
11. ,
12. .  $100 + 100 = 200 - 50 = 150$      $x + 30 = 150 = 150 - 30 = 120$  .
13. .  $x = 2,5$ ,     $2\frac{13}{26}$      $c = 19$ ,     $c = \sqrt{361}$  .
14. ,
15. ,
16. 0

.			
1.	21 432	<b>1</b>	–
2.	20	<b>1</b>	–
3.	45 m	<b>1</b>	–
4.	$-7a$	<b>1</b>	–
5.	$25\pi \text{ m}^2$	<b>1</b>	–
6.	$56 \text{ cm}^3$	<b>1</b>	–
7.	97	<b>1</b>	–
8.	<b>K.</b>	<b>1</b>	–
9.	30	<b>1</b>	–
10.	$-\frac{1}{2}$	<b>1</b>	–
11.	• $54 \text{ m}^2$	<b>1</b>	–
12.	20 000.	<b>1</b>	<sup>a</sup> –
13.	<p style="text-align: center;"><b>450 km.</b></p> <p style="text-align: center;">:</p> <p><b>I</b>  <math>6 : 100 = 27 : x</math>  <math>x = \frac{27 \cdot 100}{6}</math>  <math>x = 450</math></p> <p><b>II</b>  <math>x = (100 : 6) \cdot 27 = 450</math></p> <p><b>III</b>  <math>y = 0,06 \cdot x</math>  <math>27 = 0,06 \cdot x</math>  <math>x = 27 : 0,06</math>  <math>x = 450 \text{ km}</math></p> <p><b>IV</b>  <math>5 \cdot 100 - 50 = 450</math></p> <p><b>V</b>  <math>4 \cdot 100 + 50 = 450</math></p> <p><b>VI</b>  <math>100 + 100 + 100 + 100 + 50 = 450</math></p>	<b>1</b>	–

.																		
14.	198 dm	1 -																
15.	•	1 -																
16.	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td></td> <td style="text-align: center;">2</td> <td style="text-align: center;">1</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">B</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">C</td> <td></td> <td></td> <td></td> </tr> </table>		2	1						B				C				1 -  0,5 -
	2	1																
B																		
C																		
17.	<p style="text-align: center;"><b>: 15</b></p> <p style="text-align: center;">:</p> $2,4 \cdot \left( \frac{1}{3} + 2 : 0,3 \right) - 0,6 \cdot \sqrt{1 + \frac{16}{9}} - \frac{4}{5}$ $= 2,4 \cdot \left( \frac{1}{3} + 2 : \frac{3}{10} \right) - 0,6 \cdot \sqrt{\frac{25}{9}} - \frac{4}{5}$ $= 2,4 \cdot \left( \frac{1}{3} + \frac{20}{3} \right) - \frac{3}{5} \cdot \frac{5}{3} - \frac{4}{5}$ $= 2,4 \cdot 7 - 1 - 0,8 =$ $= 16,8 - 1,8 = 15$	1 -  :  .																

.	<b>280</b>	-
	:	<b>1</b>
18.	<p><b>I</b>  <math>1 : (300 \cdot 3) = x : (63\,000 \cdot 4)</math>  <math>900x = 63\,000 \cdot 4</math>  <math>x = 280</math></p> <p><b>II</b>  <math>\frac{63\,000 \cdot 4}{900} = 280</math></p> <p><b>III</b>  <math>1 : 300 = x : 63\,000</math>  <math>300x = 63\,000</math>  <math>x = 210</math></p> <p><math>210 : 3 = 70</math>  <math>210 + 70 = 280</math></p> <p><b>IV</b>  <math>1 : 300 = x : 63\,000</math>  <math>300x = 63\,000</math>  <math>x = 210</math></p> <p><math>210 \cdot \frac{4}{3} = 280</math></p>	

<p>19.</p>	<p><math>V = 80 \text{ cm}^3</math></p> <p style="text-align: center;">:</p> <p><b>I</b>  <math>V = V_k + V_p</math>  <math>V_k = 4^3 = 64</math></p> <p style="text-align: right;"><math>V_p = (b^2 \cdot H) : 3</math>  <math>b = \frac{a}{2} \sqrt{2}</math>  <math>b = 2\sqrt{2}</math>  <math>H = 10 \quad 4 = 6</math>  <math>V_p = (8 \cdot 6) : 3</math>  <math>V_p = 16</math></p> <p><math>V = 64 + 16 = 80</math></p> <p><b>II</b>  <math>V = V_k + V_p</math>  <math>V_k = 4^3 = 64</math></p> <p style="text-align: right;"><math>V_p = (B \cdot H) : 3</math>  <math>B = a^2 : 2 = 8</math>  <math>H = 10 \quad 4 = 6</math>  <math>V_p = (8 \cdot 6) : 3</math>  <math>V_p = 16</math></p> <p><math>V = 64 + 16 = 80</math></p>	<p style="text-align: right;">-</p> <p><b>1</b></p> <p style="text-align: right;"><math>(2\sqrt{2}</math>  <math>\sqrt{8}) /</math>  <math>a</math>  <math>(8)</math></p> <p><b>0,5</b></p> <p style="text-align: right;">:</p>
<p>20.</p>	<p style="text-align: center;"><b>900</b></p> <p style="text-align: center;">:</p> <p><b>I</b>  <math>1\ 115 \quad 350 = 765</math>  <math>(765 \quad 100) : 85 = 900</math></p> <p><b>II</b>  <math>1\ 115 \quad 350 = 765</math>  <math>85 : 765 = 100 : x</math>  <math>x = (765 \quad 100) : 85 = 900</math></p> <p><b>III</b>  <math>0,85x + 350 = 1\ 115</math>  <math>0,85x = 765</math>  <math>x = 765 : 0,85</math>  <math>x = 76\ 500 : 85</math>  <math>x = 900</math></p>	<p><b>1</b></p> <p style="text-align: right;">:</p>