Find the area of square when: a=9 cm	Find the area of rectangle when: a=13cm	Find the area of trapezoid when: a=6cm b=16cm v=9cm
$81 cm^2$	$52 cm^2$	$99 cm^2$
Find the area of rhombus when: a=7cm v=9cm	Find the area of right-angled triangle when: a=15cm b=9cm c=8cm	Find the area of triangle when: a=5,5cm v=8cm
$63 cm^2$	$36 cm^2$	$22 cm^2$
Find the surface area of cube when: a=3 cm	Find the surface area of cuboid when: a=4cm b=3cm c=6cm	Find the surface area of the prism if the base is square with a=6cm and v_p=9cm
$27 cm^2$	$108 cm^2$	$288 cm^2$
Find the volume of cube when: a=5cm	Find the volume of cuboid when: a=9cm b=6cm c=11cm	Find the volume of the prism if the base is square with a=3 cm and v_p=7cm.
$125 cm^3$	$594 cm^3$	$56 cm^3$

Areas & Volumes	**Areas & Volumes**	**Areas & Volumes**
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Find the area of square when the side is 7 cm. 49 cm²	Find the area of rectangle when the side are 10 cm and 5 cm. 50 cm²	Find the area of trapezoid when the bases are 10 cm and 5 cm, and the height is 4 cm. 30 cm²
Find the area of rhombus when the side is 10 cm long and the height is 4 cm. 40 cm²	Find the area of right-angled triangle when the sides are 5 cm, 12 cm and 13 cm. 30 cm²	Find the area of triangle with the side 5 cm and height 6 cm. 15 cm²
Find the surface area of cube with the side 2 cm. 24 cm²	Find the surface area of cuboid with length 6 cm, width 4 cm and height 2 cm. 88 cm²	Find the surface area of the prism, if the base is square with the side 4 cm long and height of the prism is 5 cm. 148 cm²
Find the volume of cube with the side 2 cm. 8 cm³	Find the volume of cuboid with length 6 cm, width 4 cm and height 2 cm. 48 cm³	Find the volume of the prism, if the base is square with the side 4 cm long and height of the prism is 5 cm. 80 cm³

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Find the area of square when the side is 12 cm.	Find the area of rectangle when the side are 12 cm and 6 cm.	Find the area of trapezoid when the bases are 12 cm and 8 cm, and the height is 5 cm.
144 cm²	72 cm²	50 cm²
Find the area of rhombus when the side is 9 cm long and the height is 5 cm.	Find the area of right-angled triangle when the sides are 8 cm, 6 cm and 3 cm.	Find the area of triangle with the side 4 cm and height 8 cm.
45 cm²	24 cm²	16 cm²
Find the surface area of cube with the side 3 cm.	Find the surface area of cuboid with length 6 cm, width 2 cm and height 5 cm.	Find the surface area of the prism, if the base is square with the side 5 cm long and height of the prism is 3 cm.
54 cm²	88 cm²	110 cm²
Find the volume of cube with the side 6 cm.	Find the volume of cuboid with length 5 cm, width 6 cm and height 3 cm.	Find the volume of the prism, if the base is square with the side 3 cm long and height of the prism is 6 cm.
216 cm³	90 cm³	54 cm³

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Find the area of square when the side is 5 cm. $25\ cm^2$	Find the area of triangle when the side are 3 cm and hight 4 cm. $6cm^2$	Find the area of trapezoid when the bases are 15 cm and 10 cm, and the height is 6 cm. $150\ cm^2$
Find the volume of cube with the side 6 cm. $216\ cm^2$	Find the volume of cuboid when the sides are 3 cm, 4 cm and height is 6 cm. $72\ cm^2$	Find the area of rectangle with the side 4 cm and 6 cm. $24\ cm^2$
Find the area of rectangle with the side 6 cm and 4 cm. $24\ cm^2$	Find the surface area of cuboid with length 10 cm, width 5 cm and height 4 cm. $220\ cm^2$	Find the surface area of the prism, if the base is square with the side 5 cm long and height of the prism is 6 cm. $170\ cm^2$
Find the surface of cube with the side 4 cm. $96cm^3$	Find the surface of cuboid with length 10 cm, width 6 cm and height 4 cm. $248\ cm^3$	Find the volume of the prism, if the base is square with the side 3 cm long and height of the prism is 4 cm. $36\ cm^3$

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$3x + 8 = 8x - 3x + 5$ $x = 1{,}5$	$5 \vdash (2x + 6\dashv) = -4 \vdash (-5 - 2x\dashv) + 3x$ $x = 10$	$54x - 14 = 40x \backslash: +28$ $x = 3$
$2x/5 + 5 = 4x/2 - 3$ $x = 5$	$3(-3x + 3) = -4x - 1$ $x = 2$	$8(-3x + 1) = 8x - 8$ $x = 0{,}5$
$\dfrac{5x}{6} = 4 + \dfrac{x}{3}$ $x = 8$	$5 + 9x = 3x - 1$ $x = -1$	$8(6x + 2 - 3x) - 2x + 6 = 0$ $x = -1$
$5x - 14 = 2 + 4x$ $x = 16$	$11x + 5 - 3x = 16 + 4x - 5$ $x = 1{,}5$	$4 + 5x = \sqrt{196}$ $x = 2$

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$2x + 7 - x = 4x - 2 - x - 17$ $x = 6$	$3 \cdot (2x - 4) = 2 \cdot (x + 1) + 11 - x$ $x = 5$	$10x - 1 = 15 - 6x$ $x = 1$
$\dfrac{3x}{2} + 5 = \dfrac{5x}{2} - 1$ $x = 6$	$9x - 8 = 11x - 10$ $x = 1$	$4 \cdot (x - 5) - 7 = 13 - x$ $x = 8$
$x - \dfrac{4}{3} = 9 - \dfrac{x}{2}$ $x = 7$	$4x - 5 = 3 \cdot (3 - x)$ $x = 2$	$5 - 5 \cdot (2x + 9) - 19 = 0$ $x = -2$
$10x - 1 = 15 - 6x$ $x = 1$	$55 - 8x = 12 \cdot 6 - (x - 1)$ $x = 2$	$26 - 3x = \sqrt{121}$ $x = 5$

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$6x \cdot 3 - 26 = (10x \cdot 3) - 76 - 2x$ $x = 5$	$8 \cdot 18 : (12 - x) = x \cdot 2 + (\sqrt{121} + 1)$ $x = 6$	$15 - 4x = 128 : (-32x) - 41$ $x = -2$
$18 + 10x \cdot 14 = (75 : 5) + 80x$ $x = 0{,}25$	$x \cdot 2x \cdot 3x - 19 = 11x -(-110)$ $x = 3$	$2 \cdot (8 \cdot 15x - 6) = (30x + 15) \cdot 5 + 3x$ $x = 1$
$3x \cdot 2 + 92 = x \cdot 3x + 20$ $x = 6$	$10x \cdot 20 - 146 : x = x \cdot 30 \cdot 3x : x - 53$ $x = 2$	$(2x - 4) \cdot 3 - x = 756 - x$ $x = 128$
$x - 1 = (9 \cdot 50 + 2x) \cdot 0{,}5 - 226$ $x = 1\,000\,000$	$9x \cdot 16 : x = 16x + 150 - 13x - 6 + (-3x)$ $x = 7$	$268x : 3 = (16 - 6 \cdot 2) \cdot (6x + 49)$ $x = 3$

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$6x + 12 - 2x = 8x - 7 + 3$ $x = 4$	$\dfrac{3}{4} + \dfrac{6x}{8} = -\dfrac{4}{8} + \dfrac{2x}{4}$ $x = -5$	$7x + 4 - x = 15 + 5x$ $x = 11$
$\dfrac{3x}{2} + 5 = \dfrac{5x}{2} - 1$ $x = 6$	$\dfrac{4x}{3} + \dfrac{9}{3} = 2 \cdot (x + 3)$ $x = -5$	$5 \cdot (x + 4) - 5 = 15 - 5x$ $x = 0$
$2x + 2 \cdot (2 + 3) = 3 \cdot (2x - 4)$ $x = 11$	$\dfrac{4x}{2} - 5 = 3 \cdot (2 + x)$ $x = -11$	$3 \cdot (4x - 4) = 2x + 2$ $x = 1.4$
$2x + 8 = 4 + 4x$ $x = 2$	$\dfrac{2x}{3} - \dfrac{4}{2} = \dfrac{6}{2} + \dfrac{3x}{3}$ $x = -15$	$12 - 3x = \sqrt{81}$ $x = 1$

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$5x + 12 = 4x + (2 + 14)$	$15 - 5x - 18 = -4 \cdot 3x$	$6x + 3 \cdot 3 = 15 + 2 + 2x$
$x = 4$	$x = -3$	$x = 2$
$15x \cdot 3 - (2 \cdot 9) = 3x \cdot (2 \cdot 4 + 1)$	$4 \cdot 2x = 5x \cdot 2 - 10$	$4 \cdot 5x : 20 = (13 - x - 1):3$
$x = 1$	$x = -5$	$x = 3$
$x + 2 \cdot 2 = 2x - 2 \cdot 2 + 1$	$6 + 2x - 7 = 5x - 3 \cdot 4 - 1$	$3 + 4x + 2 = x + 5 : 2$
$x = 7$	$x = 4$	$x = -1$
$2x : 8 : 4 - 13 = -12$	$15 + 3x : 3 = x \cdot 8 - 9$	$6x \cdot 6 - 13 + 5 = 12 + 2x - 5 + 9$
$x = 16$	$x = 2$	$x = 6$

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$5x + 12 = 4x + (2 + 14)$ $x = 4$	$15 - 5x - 18 = -4 \cdot 3x$ $x = -3$	$6x + 3 \cdot 3 = 15 + 2 + 2x$ $x = 2$
$15x \cdot 3 - (2 \cdot 9) = 3x \cdot (2 \cdot 4 + 1)$ $x = 1$	$4 \cdot 2x = 5x \cdot 2 - 10$ $x = -5$	$4 \cdot 5x : 20 = (13 - x - 1):3$ $x = 3$
$x + 2 \cdot 2 = 2x - 2 \cdot 2 + 1$ $x = 7$	$6 + 2x - 7 = 5x - 3 \cdot 4 - 1$ $x = 4$	$3 + 4x + 2 = x + 5 : 2$ $x = -1$
$2x : 8 : 4 - 13 = -12$ $x = 16$	$15 + 3x : 3 = x \cdot 8 - 9$ $x = 2$	$6x \cdot 6 - 13 + 5 = 12 + 2x - 5 + 9$ $x = 6$

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Which number logically follows this series? 0 - 1 – 10 – 9 – …	Which two number logically follow this series? 0 – 1 – 10 – 11 – …	Which two numbers logically follow this series? 32 – 8 – 4 – 2 - …
910	100, 101	2, 1
Which digit we must add instead of "*" in the number to be divisible by 9. 35*6	Which digit we must add instead of "*" in the number to be divisible by 8. 951 5*2	Which digit we must add instead of "*" in the number to be divisible by 15. 4654*630
4	5	2,5 or 8
Investor invested in one Erasmcoin for $1000, then it dropped by 25%, so he bought another two, then it rose by 75% How much did he had in crypto?	When Bob was 12 his brother Bobek was 75% of his age, now Bob is 35. How old is Bobek now?	When you use mobile phone in normal mode it last 3 hours, when you use battery saving mode it last 5 hours. How long it last when you don't have your mobile phone, but you have old Nokia 3310?
$4050	32	Almost infinity time
The trapezoid has angles 136° ,49° and 50°. What is the size of the last angle?	Calculate the height of right-angled trapezoid with the sides: a=5cm, b=6 cm, c=7cm and d=8 cm	How many 5x7 cm cards can fit on 1 A4 page measuring 29.5x21 cm?
125°	5 or 6 or 7 or 8 cm	16

Logic	Logic	Logic
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Which number logically follows this series? $1 - 4 - 9 - 16 - …$ *25*	Which two number logically follow this series? $1 - 1 - 2 - 3 - 5 - …$ *8, 13*	Which two numbers logically follow this series? $1 - 3 - 9 - 27 - …$ *81, 243*
Which digit we must add instead of "*" in the number to be divisible by 9. 25*1 *1*	Which digit we must add instead of "*" in the number to be divisible by 4. 25*4 *0,2,4,6 or 8*	Which digit we must add instead of "*" in the number to be divisible by 10. 256* *0*
A dealer bought an article for $7, sold it for $8, bought it back for $9, and sold it for $10. How much profit did he make? *$2*	On Tom's 14th Birthday, his younger brother Ben was half his age. If today is Tom's 31st birthday, how old is Ben? *24*	The first tap takes 2 hours to fill the pool, the second tap takes 3 hours, and the last one takes 6 hours. How long will it take to fill the tank using all three taps at once? *1 hour*
The triangle has angles 30° and 60°. What is the size of the last angle? *90°*	Calculate the hypothenuse of right-angled triangle with the sides 3 cm and 4 cm. *5 cm*	We have got cubic box with the side 80 cm. How many cubes with the side 20 cm we could add to this box? *64*

Logic	Logic	Logic
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Which number logically follows this series? 1 – 5 – 25 – 125 - … 625	Which number logically follow this series? 4 – 4 – 16 – 64 - … 4096	Which two numbers logically follow this series? 1 – 2 – 4 – 8 – 16 – 32 – 64 – … 128, 256
Which digit we must add instead of "*" in the number to be divisible by 15. 7*5 9	What all digits can we use instead of "*" in the the number to be divisible by 5. 96*3520 0, 1, 2, 3, 4, 5, 6, 7, 8, 9	Which digit we must add instead of "*" in the number to be divisible by 11. 66*3 9
When John was 6, his grandfather was 12 times older. Today is Grandpa celebrating his 80th birthday, how old is John? 14	When Sofia was 3 years old, her mother was 13 times older. Mother is now 45, how many times younger is Sofia today? 5	When Jack goes to school, he cover 2 kilometers in 22 minutes. If Jack runs, he'll run that distance in 11 minutes. How many kilometers does Jack have to run if he runs? 2 kilometers
The rectangular trapezoid has the length of the side a is 10 centimeters and the height of the trapezoid is 6 centimeters. What is the length of the shortest side? 6 centimeters	What is the content of the base of the cube. The height of the cube is 7 centimeters. 49 cm²	We have a rubik's cube that has 9 squares on each side. One square measures 2 by 2 centimeters. How many centimeters is the long edge of a rubik's cube? 6 centimeters

Logic	Logic	Logic
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$\dfrac{2}{3} + \dfrac{1}{4} - \dfrac{1}{2} =$ $\frac{5}{12}$	$\dfrac{2}{3} \cdot \left(\dfrac{1}{4} + \dfrac{1}{2}\right) =$ $\frac{1}{2}$	$\left(\dfrac{2}{3} + \dfrac{1}{4}\right) : \dfrac{11}{2} =$ $\frac{1}{6}$
$3^2 + 6^2 + 9^2 =$ 126	$\sqrt{121} + \sqrt{81} - \sqrt{400} =$ 0	$(8 - 6)^2 =$ 4
$2 \cdot (11 - 8) + (30 + 2) : 8 =$ 10	$[3 \cdot (2 + 6) - 2(6 - 3)] : 9 =$ 2	$(8 + 2)^2 + (5 - 3)^3 - 58 =$ 50
$(-2)^2 + (-3)^3 - (-4)^0 =$ −24	$2 \cdot \sqrt{144} - 3 \cdot \sqrt{25} - \sqrt{9} =$ 0	$(8 - 6)^2 + (8 + 6)^2 =$ 200

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$\dfrac{2}{5} \cdot \dfrac{3}{10} - \dfrac{1}{5} : \dfrac{5}{7} =$ $-\frac{4}{25}$	$\dfrac{2}{5} \cdot \left(\dfrac{3}{10} - \dfrac{1}{5}\right) : \dfrac{5}{7} =$ $\frac{7}{125}$	$\dfrac{2}{5} \cdot \dfrac{3}{10} + \dfrac{1}{5} : \dfrac{5}{7} =$ $\frac{2}{5}$
$\sqrt{144} \cdot \sqrt{(8 + 3^2 + 25 - 2 \cdot 3)} =$ 72	$7 \cdot \sqrt{81} - 3 \cdot \sqrt{64} =$ 39	$3 \cdot 3^3 - (5^2 - (-2)^2) =$ 60
$12^2 - (15 : 5 - 4^2 + 20) \cdot \sqrt{49} =$ 95	$4^2 - 5 \cdot 6 + 55 : 11 - 4 \cdot 2^2 + \sqrt{81} =$ -16	$(3^2 + 1)^2 - 5\left(\dfrac{\sqrt{(3 \cdot 3 - 4 + 2 + 3^2)}}{\sqrt{16} - 2}\right) =$ 90
$4 \cdot 16 - 16 : 2 + 0 \cdot 125 - 25 =$ 31	$3 - [(11 - 8) \cdot 2(15 - 9) - 30] + 5 \cdot 5 - 3 =$ 19	$(-3)^3 + (-6)^2 - (\sqrt{64} \cdot \dfrac{1}{2} - \left(\dfrac{1}{2} - \dfrac{9}{6}\right)) =$ 4

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$\dfrac{4}{3} + \dfrac{2}{4} - \dfrac{5}{6} =$ 1	$\dfrac{5}{6} \cdot \left(\dfrac{2}{4} + \dfrac{3}{2}\right) =$ $\dfrac{8}{3}$	$\left(\dfrac{4}{5} + \dfrac{2}{10}\right) : \dfrac{5}{2} =$ $\dfrac{2}{5}$
$4^2 + 2^2 + 8^2 =$ 84	$\sqrt{144} + \sqrt{121} - \sqrt{100} =$ 13	$(9 - 3)^2 =$ 36
$3 \cdot (11 - 9) + (25 + 3) : 9 =$ 10	$[4 \cdot (3 + 2) - 2 \cdot (8 - 5)] : 2 =$ 7	$(7 + 2)^2 + (7 - 4)^3 - 8 =$ 100
$(-8)^2 + (-4)^3 - (-12)^0 =$ -127	$2 \cdot \sqrt{81} - 3 \cdot \sqrt{64} - \sqrt{25} =$ -11	$(9 - 3)^2 + (6 + 6)^2 =$ 180

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$0{,}5 - \dfrac{1}{4} + \dfrac{12}{8} =$ $1{,}75, 1\frac{3}{4}, \frac{7}{4}$	$\dfrac{2}{4} \cdot \left(\dfrac{3}{6} + \dfrac{3}{2}\right) + \dfrac{1}{3} =$ $1\frac{1}{3}, 1{,}333, \frac{4}{3}$	$(0{,}80 + 3{,}6) \cdot 1/4 \; =$ $1{,}1, \frac{1}{10}, 1\frac{1}{10}$
$3^2 \cdot 6^2 + 11^2 =$ 434	$8^2 + (16^2 - 18) =$ 302	$(6 \cdot 3 - 9)^2 =$ 81
$69 - (5^2 - 6 \cdot 4)^2 =$ 68	$[3^2 + (36 - 5^2 + 120)] : 2^2 =$ 85	$(-5^2 + 5) \cdot 5 + 5^3 =$ 275
$(-6)^2 + (-3)^2 \cdot (-2)^3 =$ -360	$1^2 + 6^3 \cdot 432^3 \cdot 0^2 =$ 0	$0{,}5^2 \cdot 400 + 12^2 =$ 244

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$\dfrac{1}{24} + \dfrac{5}{8} - \dfrac{7}{12} + 1\dfrac{3}{4} =$ $\frac{11}{6}$	$\left(\dfrac{1}{7} + \dfrac{5}{3}\right) : \dfrac{2}{21} - 19 =$ 0	$\dfrac{\sqrt{75}}{\sqrt{27}} - \dfrac{\sqrt{16}}{\sqrt{9}} =$ $\frac{1}{3}$
$7 \cdot (2 - 4) + (6 - 2)(3 + 5) =$ 18	$(-2 - 3)^2 - (6 - 7)^3 =$ 26	$127 : (2 + 1 + 0 + 6) - 2 \cdot 1 \cdot 0 \cdot 6 =$ 13
$\left(\dfrac{3}{4} - \dfrac{1}{3}\right)\dfrac{6}{5} + \dfrac{1}{2} =$ 1	$\sqrt{24}\sqrt{12}\sqrt{2} =$ 24	$\dfrac{25 \cdot 15^2}{5^4} =$ 9
$(-2) \cdot 6 + 1 - (-3)(-1) - [3(-3) - 11] =$ 6	$20^2 - \sqrt{27}\sqrt{3} - 320 =$ 71	$\sqrt[3]{8} \cdot \sqrt[3]{27} - \dfrac{\sqrt[3]{64}}{\sqrt[3]{8}} =$ 4

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