



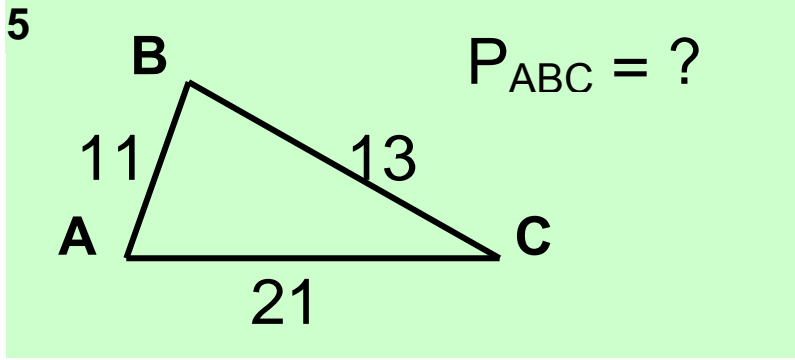
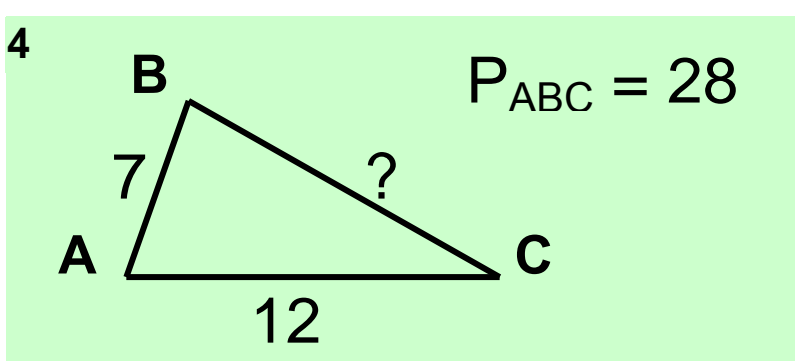
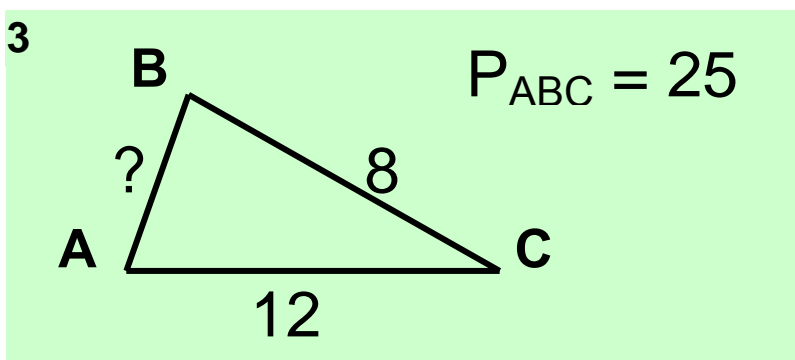
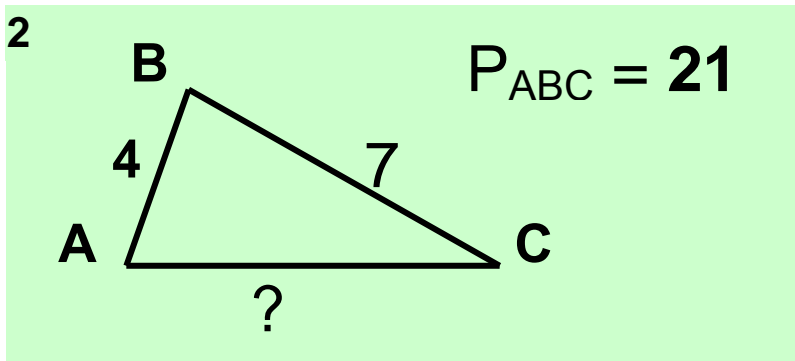
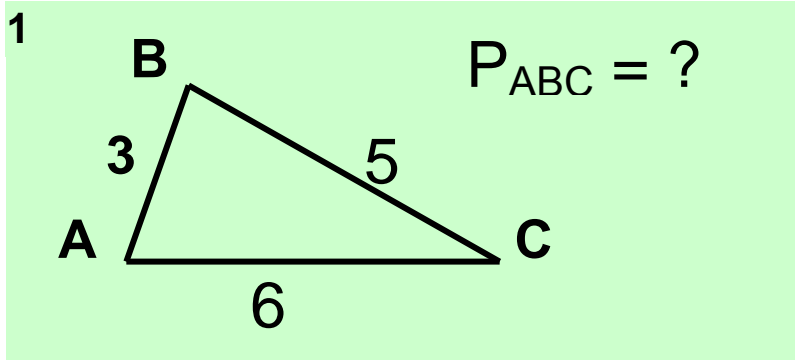
МАТЕМАТИКА. ПРАКТИЧЕСКИЙ КУРС

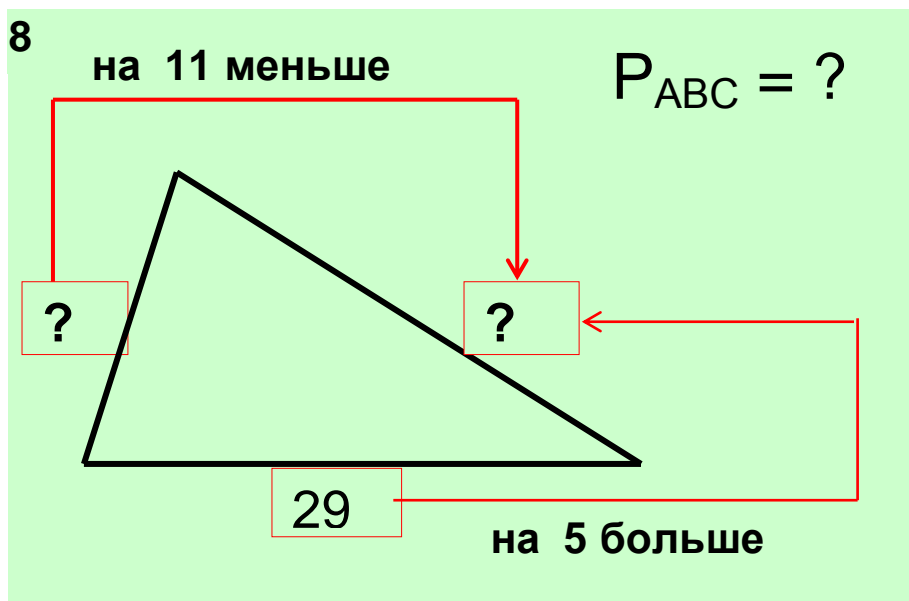
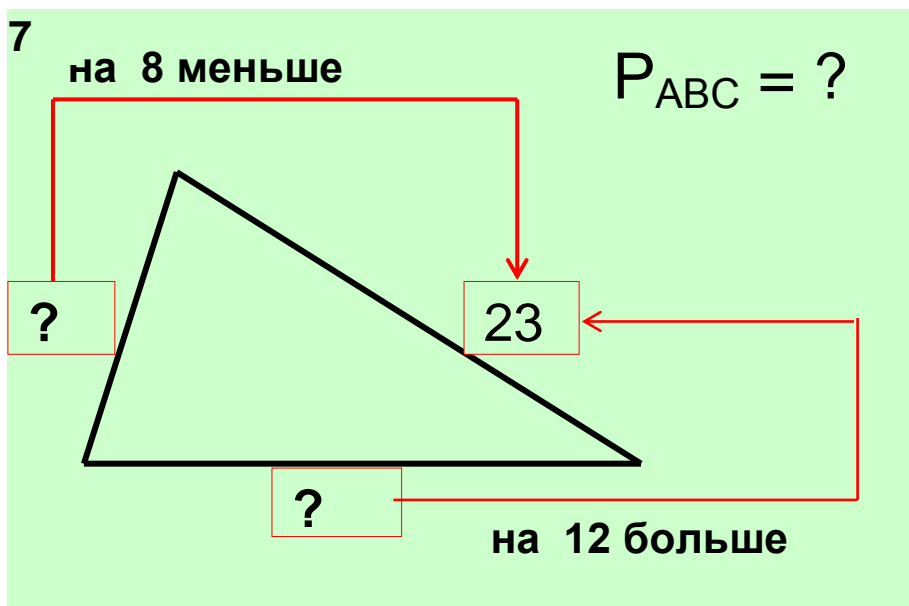
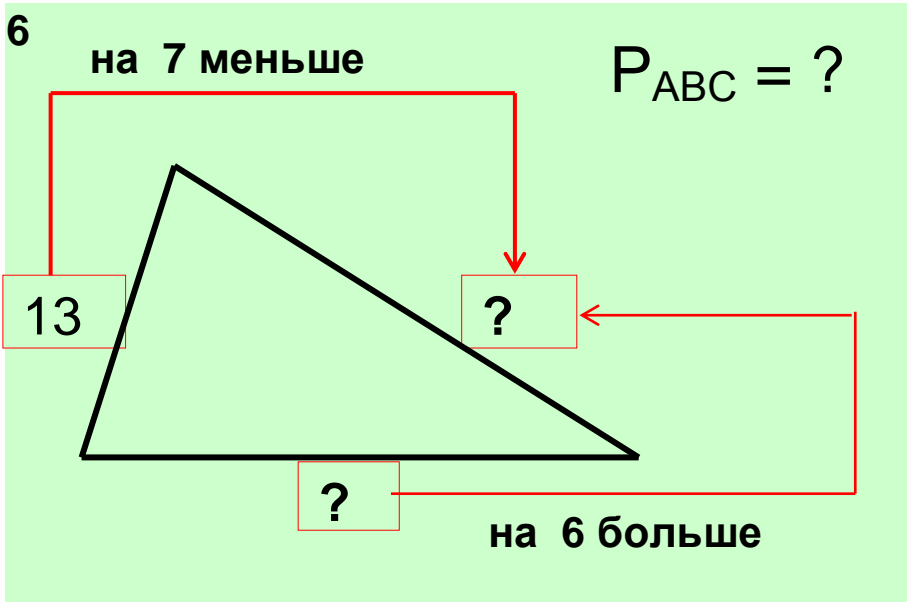
В ПОМОЩЬ ПОВТОРЯЮЩИМ МАТЕМАТИКУ ПО СПРАВОЧНИКАМ

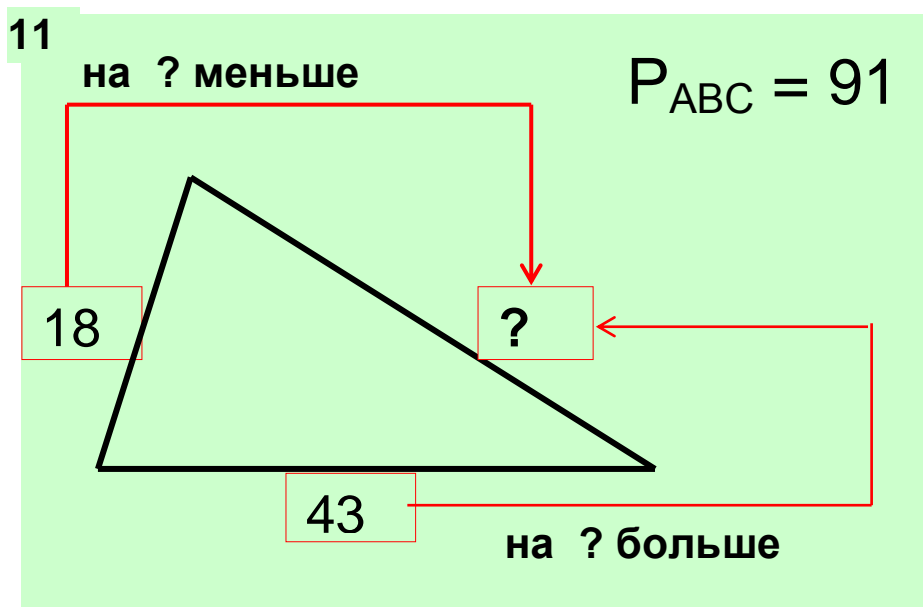
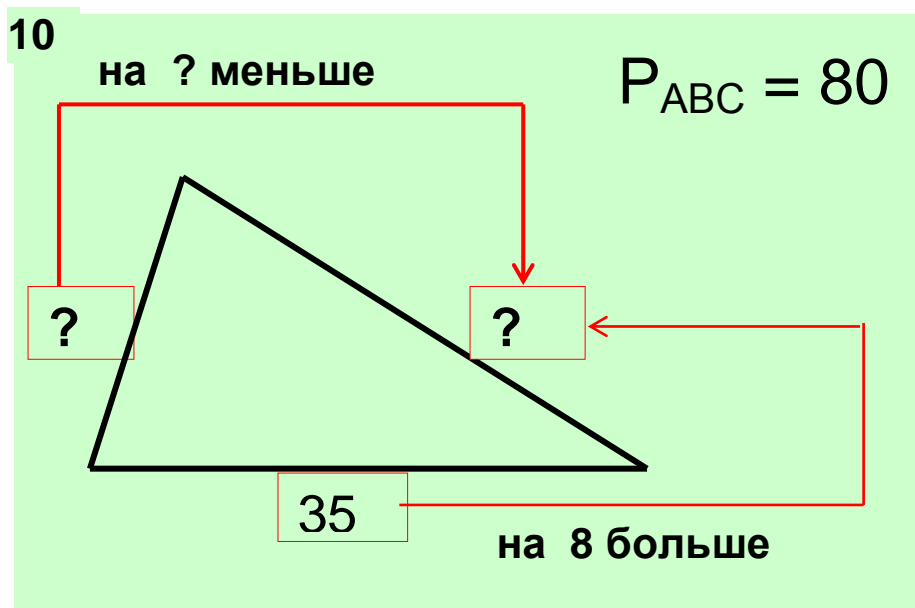
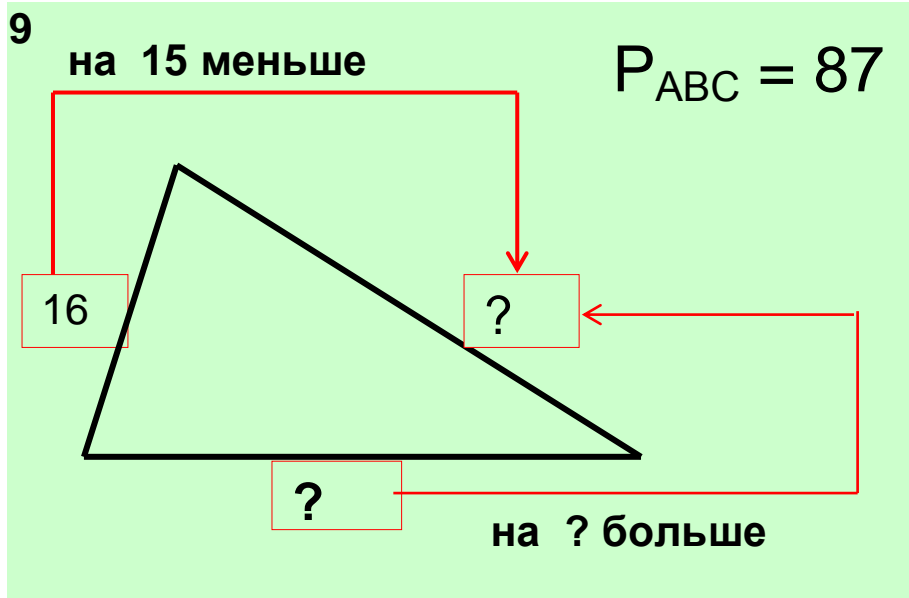
Тема 6. Задачи с геометрическим содержанием условия которых, изображены схематично

Содержание

- 1. Сложение и умножение чисел на геометрическом материале**
- 2. Умножение и деление чисел на геометрическом материале**
- 3. Площадь прямоугольника**
- 4. Нахождение площадей фигур**
- 5. Задачи разные**



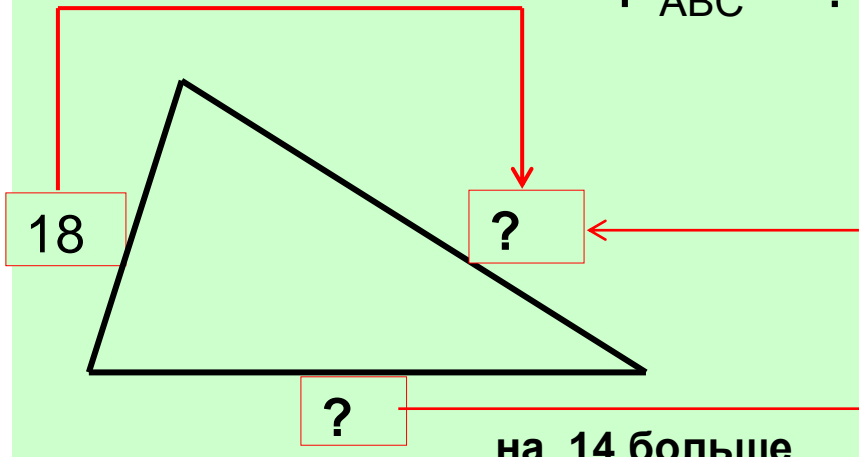




12

на 14 меньше

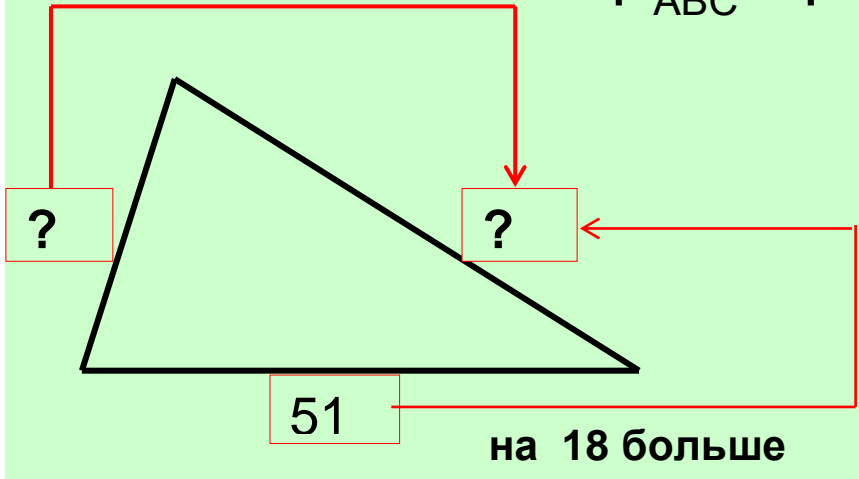
$P_{ABC} = ?$



13

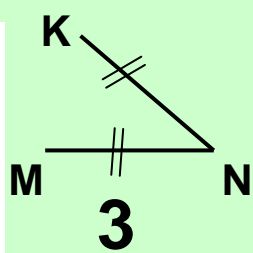
на 12 меньше

$P_{ABC} = ?$

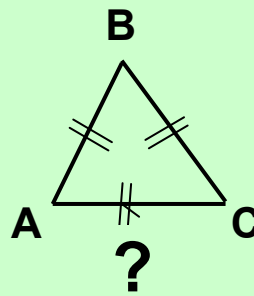


УМНОЖЕНИЕ И ДЕЛЕНИЕ ЧИСЕЛ НА 2 И 3

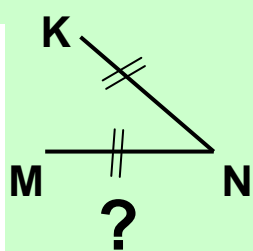
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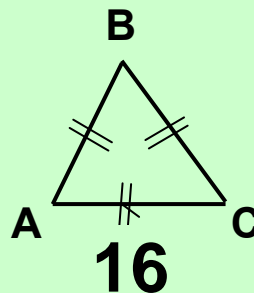
$$P_{\triangle} = P_{\triangle}$$



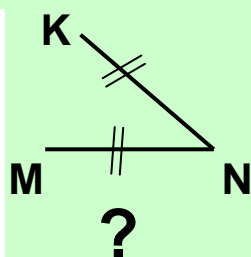
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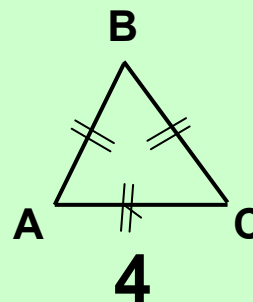
$$P_{\triangle} = P_{\triangle}$$



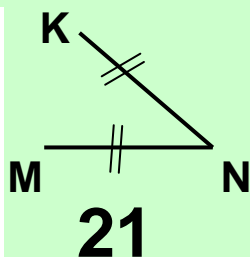
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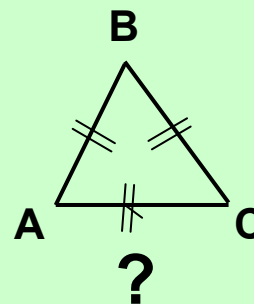
$$P_{\triangle} = P_{\triangle}$$



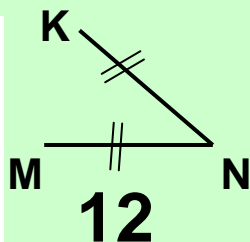
18



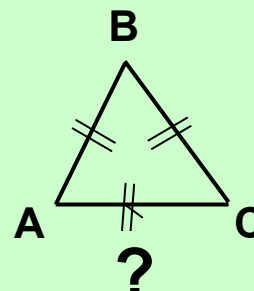
$$P_{\triangle} = P_{\triangle}$$



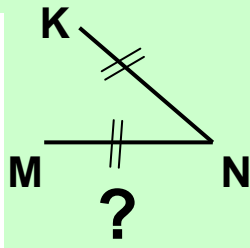
19



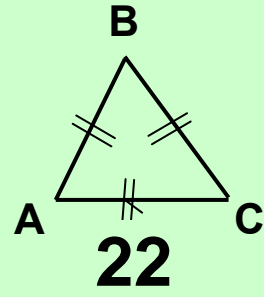
$$P_{\triangle} = P_{\triangle}$$



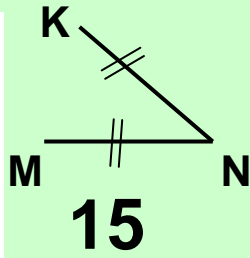
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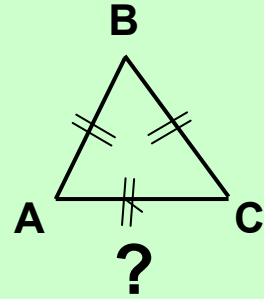
$$P_{\triangle} = P_{\triangle}$$



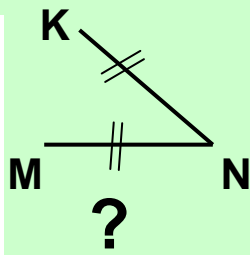
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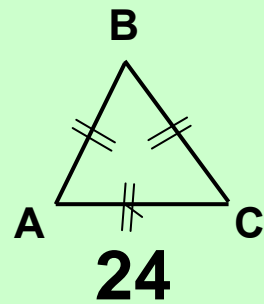
$$P_{\triangle} = P_{\triangle}$$



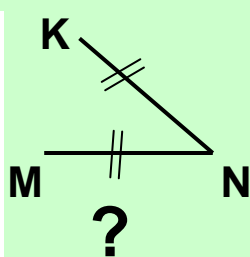
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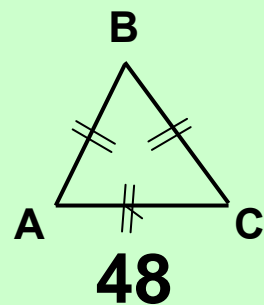
$$P_{\triangle} = P_{\triangle}$$



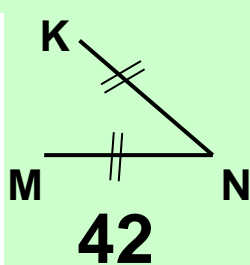
23



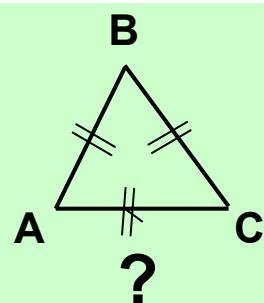
$$P_{\triangle} = P_{\triangle}$$



24

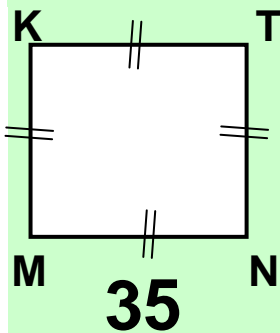


$$P_{\triangle} = P_{\triangle}$$

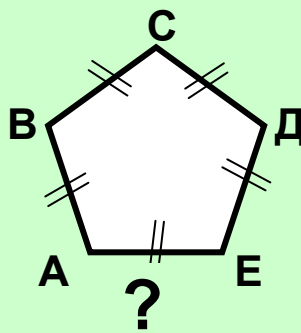


УМНОЖЕНИЕ И ДЕЛЕНИЕ ЧИСЕЛ НА 4 И 5

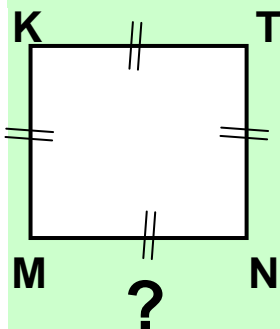
27



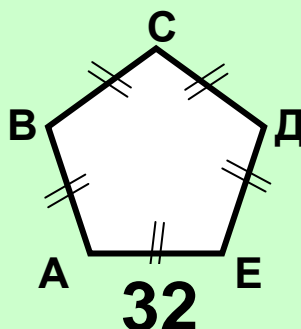
$$P_{\square} = P_{\text{пятиугольник}}$$



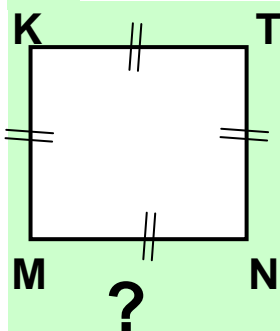
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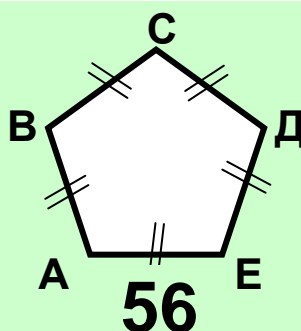
$$P_{\square} = P_{\text{пятиугольник}}$$



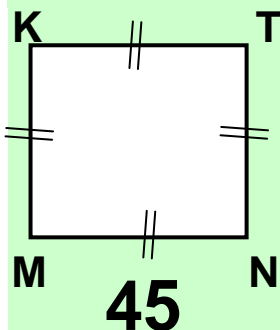
29



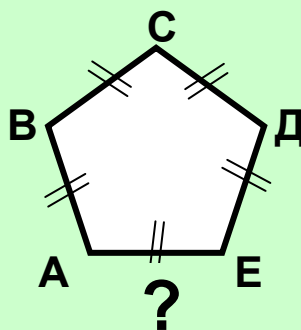
$$P_{\square} = P_{\text{пятиугольник}}$$



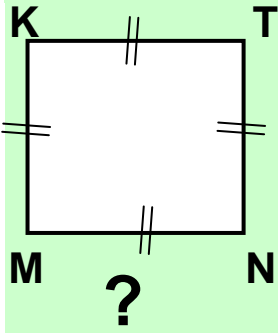
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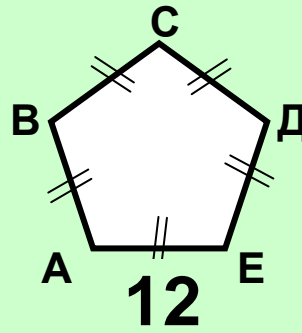
$$P_{\square} = P_{\text{пятиугольник}}$$



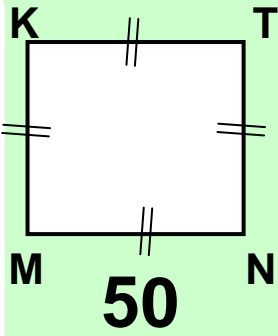
31



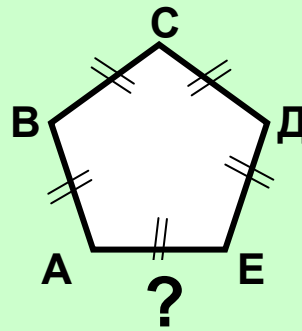
$$P_{\square} = P_{\text{pentagon}}$$



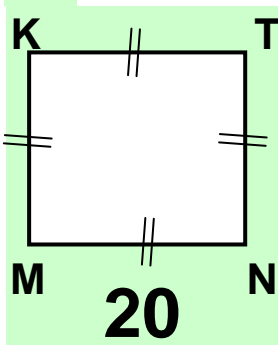
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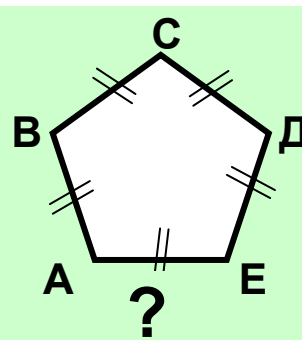
$$P_{\square} = P_{\text{pentagon}}$$



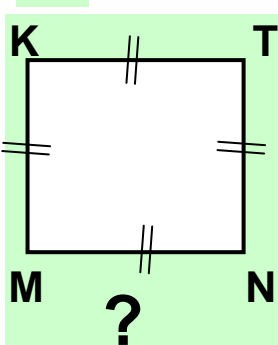
33



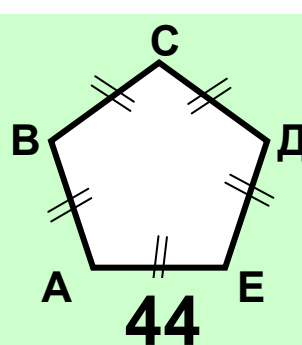
$$P_{\square} = P_{\text{pentagon}}$$



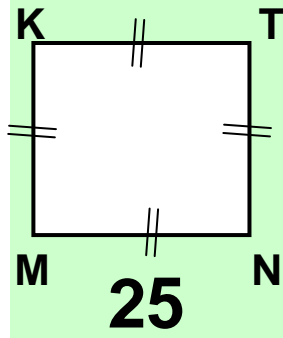
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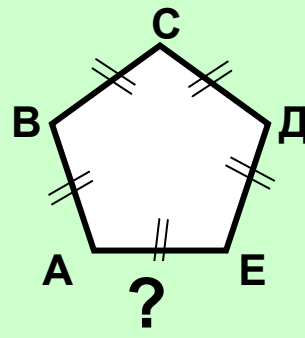
$$P_{\square} = P_{\text{pentagon}}$$



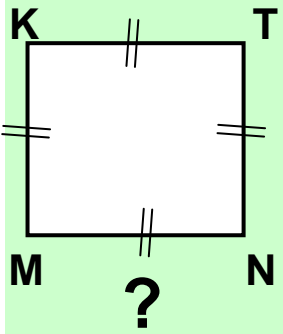
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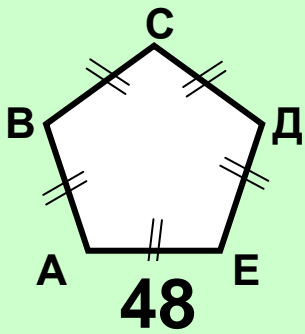
$$P_{\square} = P_{\text{pentagon}}$$



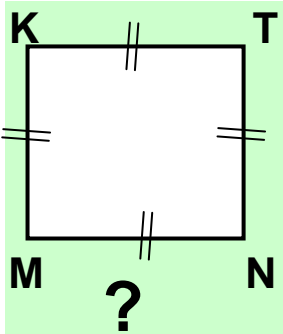
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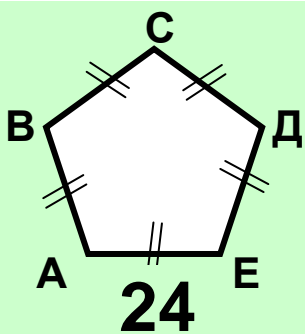
$$P_{\square} = P_{\text{pentagon}}$$



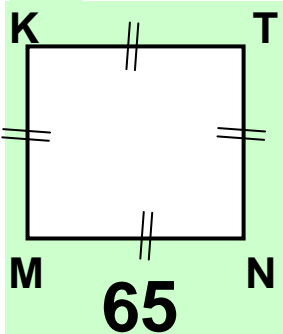
37



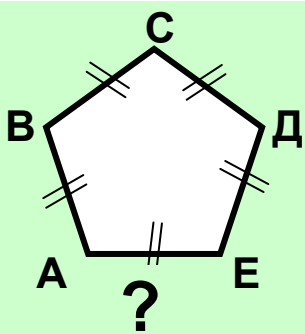
$$P_{\square} = P_{\text{pentagon}}$$



38



$$P_{\square} = P_{\text{pentagon}}$$



УМНОЖЕНИЕ И ДЕЛЕНИЕ ЧИСЕЛ НА 6 И 5

39

$P_{\text{hexagon}} = P_{\text{pentagon}}$

40

$P_{\text{hexagon}} = P_{\text{pentagon}}$

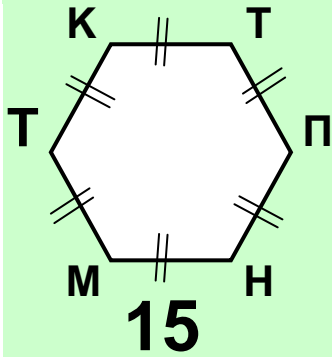
41

$P_{\text{hexagon}} = P_{\text{pentagon}}$

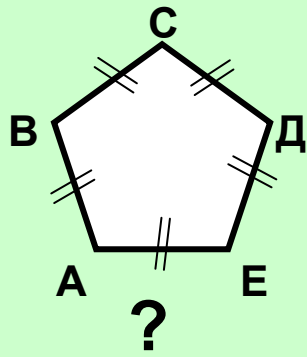
42

$P_{\text{hexagon}} = P_{\text{pentagon}}$

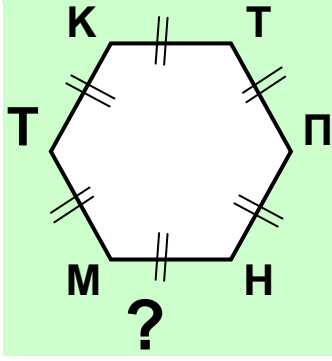
43



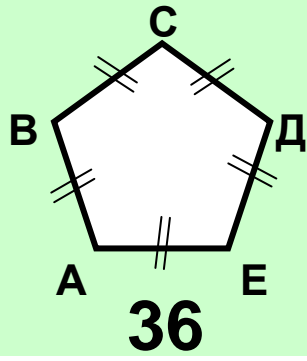
$$P_{\text{hexagon}} = P_{\text{pentagon}}$$



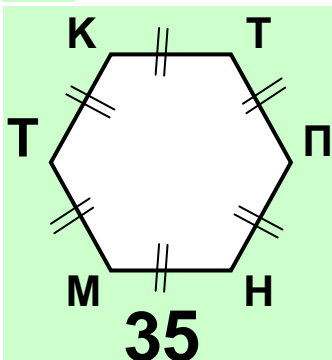
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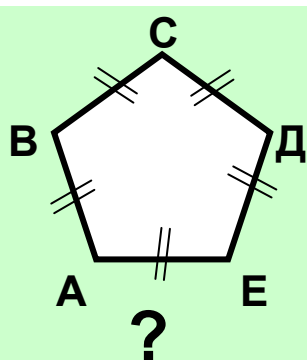
$$P_{\text{hexagon}} = P_{\text{pentagon}}$$



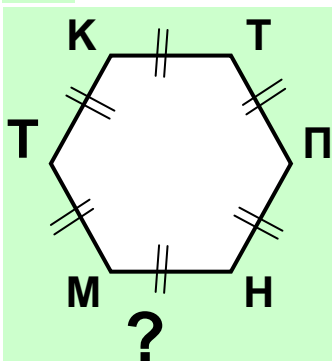
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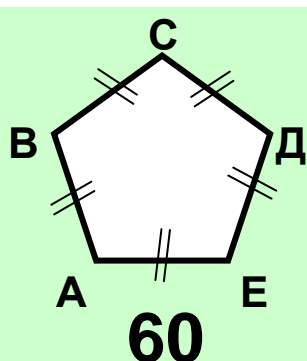
$$P_{\text{hexagon}} = P_{\text{pentagon}}$$



46



$$P_{\text{hexagon}} = P_{\text{pentagon}}$$



47

Hexagon vertices: K, T, П, H, M, T. Value: 40.
 Yellow box: $P_{\text{hexagon}} = P_{\text{pentagon}}$
 Pentagon vertices: C, Д, E, A, B. Value: ?

48

Hexagon vertices: K, T, П, H, M, ?. Value: ?.
 Yellow box: $P_{\text{hexagon}} = P_{\text{pentagon}}$
 Pentagon vertices: C, Д, E, A, B. Value: 66

49

Hexagon vertices: K, T, П, H, M, ?. Value: 45.
 Yellow box: $P_{\text{hexagon}} = P_{\text{pentagon}}$
 Pentagon vertices: C, Д, E, A, B. Value: ?

50

Hexagon vertices: K, T, П, H, M, ?. Value: ?.
 Yellow box: $P_{\text{hexagon}} = P_{\text{pentagon}}$
 Pentagon vertices: C, Д, E, A, B. Value: 72

УМНОЖЕНИЕ И ДЕЛЕНИЕ ЧИСЕЛ НА 3 И 8

51

$$\begin{array}{l} P_{\text{треугольника}} \\ \text{равностороннего} \\ \text{AB – его сторона} \\ \text{AB} = 16 \end{array} = \begin{array}{l} P_{\text{восьмиугольника}} \\ \text{равностороннего} \\ \text{MN – его сторона} \\ \text{MN} = ? \end{array}$$

52

$$\begin{array}{l} P_{\text{треугольника}} \\ \text{равностороннего} \\ \text{AB – его сторона} \\ \text{AB} = ? \end{array} = \begin{array}{l} P_{\text{восьмиугольника}} \\ \text{равностороннего} \\ \text{MN – его сторона} \\ \text{MN} = 9 \end{array}$$

53

$$\begin{array}{l} P_{\text{треугольника}} \\ \text{равностороннего} \\ \text{AB – его сторона} \\ \text{AB} = 32 \end{array} = \begin{array}{l} P_{\text{восьмиугольника}} \\ \text{равностороннего} \\ \text{MN – его сторона} \\ \text{MN} = ? \end{array}$$

54

$$\begin{array}{l} P_{\text{треугольника}} \\ \text{равностороннего} \\ \text{AB – его сторона} \\ \text{AB} = ? \end{array} = \begin{array}{l} P_{\text{восьмиугольника}} \\ \text{равностороннего} \\ \text{MN – его сторона} \\ \text{MN} = 15 \end{array}$$

55

$$P_{\text{треугольника равностороннего}} = P_{\text{восьмиугольника равностороннего}}$$

AB – его сторона
AB = 48

MN – его сторона
MN = ?

56

$$P_{\text{треугольника равностороннего}} = P_{\text{восьмиугольника равностороннего}}$$

AB – его сторона
AB = ?

MN – его сторона
MN = 21

57

$$P_{\text{треугольника равностороннего}} = P_{\text{восьмиугольника равностороннего}}$$

AB – его сторона
AB = 64

MN – его сторона
MN = ?

58

$$P_{\text{треугольника равностороннего}} = P_{\text{восьмиугольника равностороннего}}$$

AB – его сторона
AB = ?

MN – его сторона
MN = 27

59

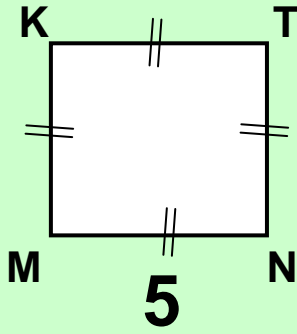
$$P_{\text{треугольника равностороннего}} = P_{\text{восьмиугольника равностороннего}}$$

AB – его сторона
AB = 80

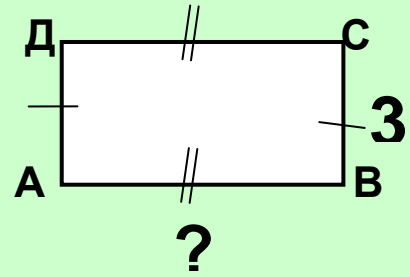
MN – его сторона
MN = ?

Повторение

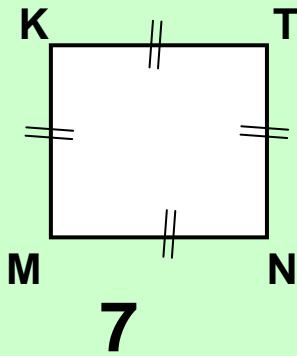
63



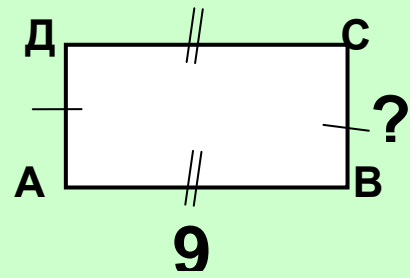
$$P_{\square} = P_{\square}$$



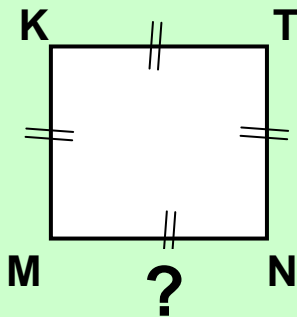
64



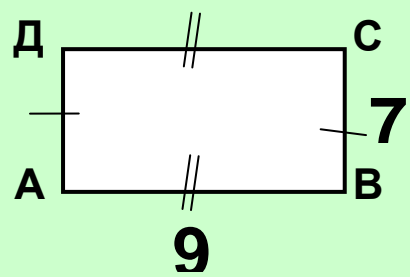
$$P_{\square} = P_{\square}$$



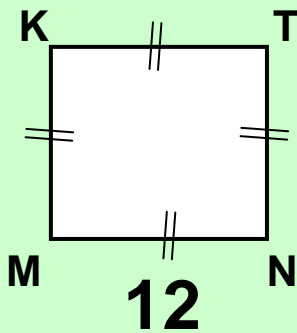
65



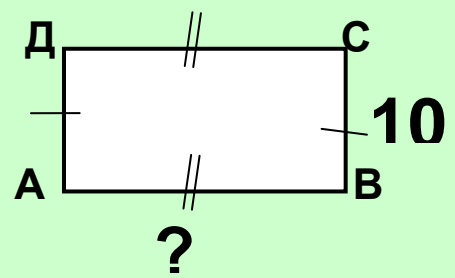
$$P_{\square} = P_{\square}$$



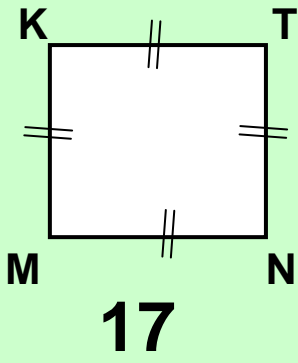
66



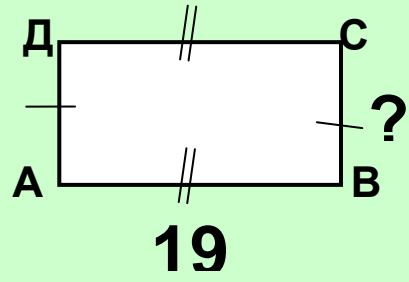
$$P_{\square} = P_{\square}$$



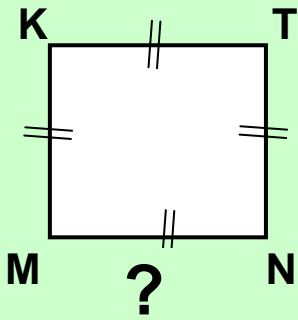
67



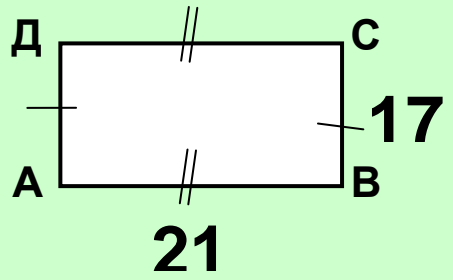
$$P_{\square} = P_{\square}$$



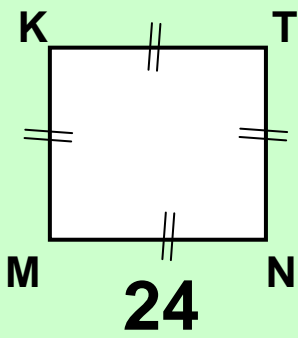
68



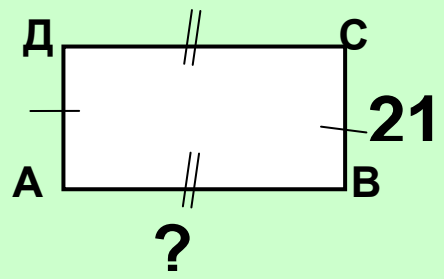
$$P_{\square} = P_{\square}$$



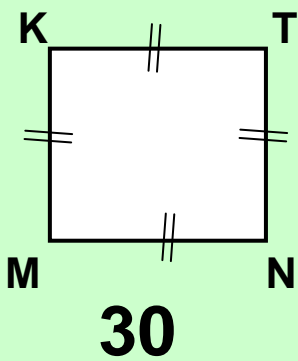
69



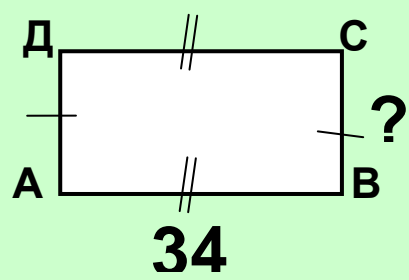
$$P_{\square} = P_{\square}$$



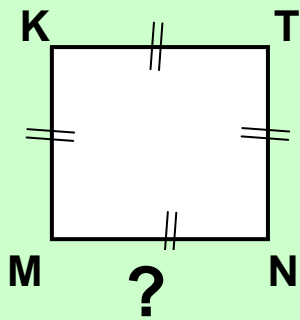
70



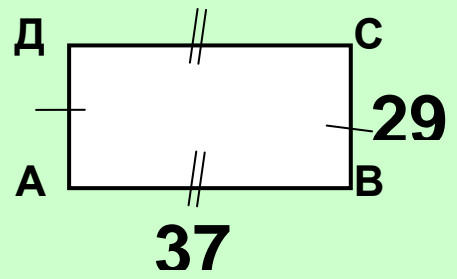
$$P_{\square} = P_{\square}$$



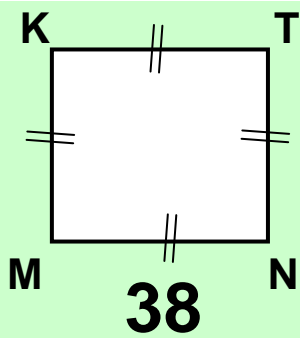
71



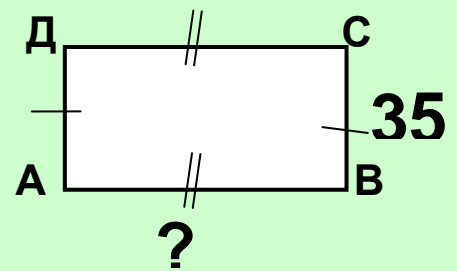
$$P_{\square} = P_{\square}$$



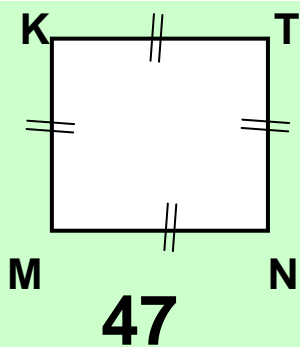
72



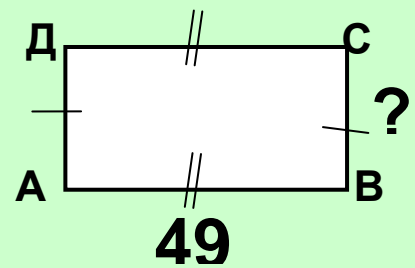
$$P_{\square} = P_{\square}$$



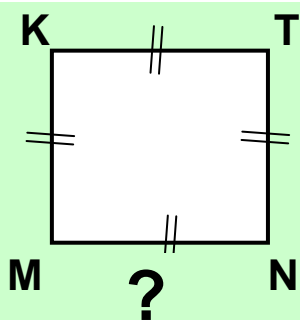
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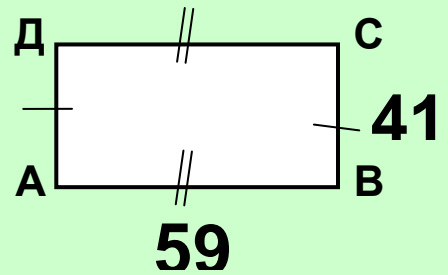
$$P_{\square} = P_{\square}$$



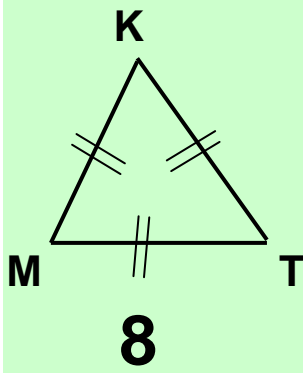
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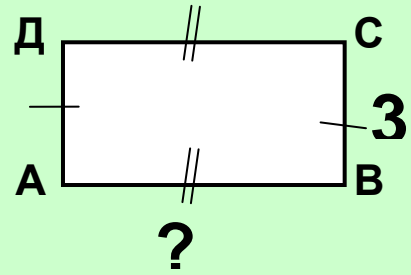
$$P_{\square} = P_{\square}$$



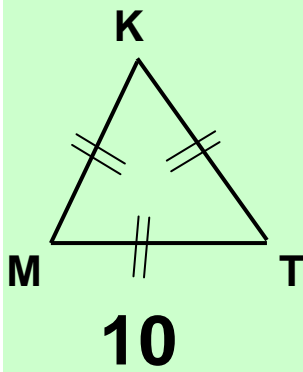
75



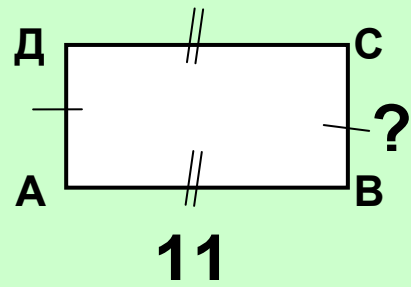
$$P_{\triangle} = P_{\square}$$



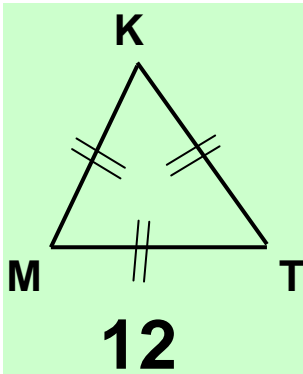
76



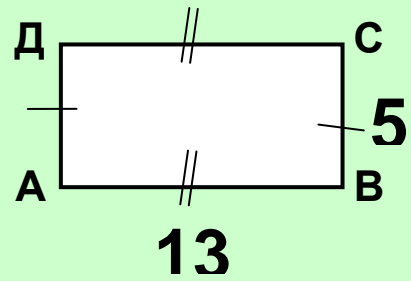
$$P_{\triangle} = P_{\square}$$



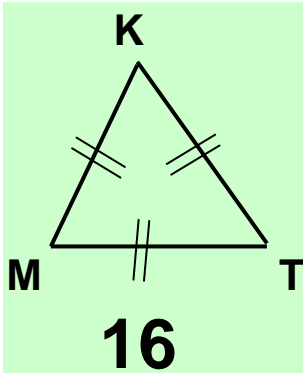
77



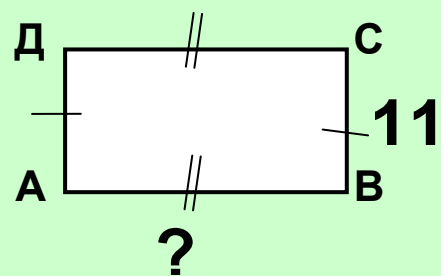
$$P_{\triangle} = P_{\square}$$



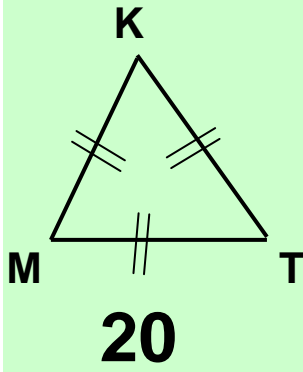
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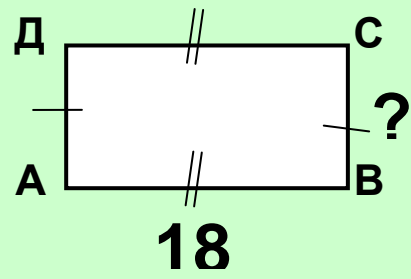
$$P_{\triangle} = P_{\square}$$



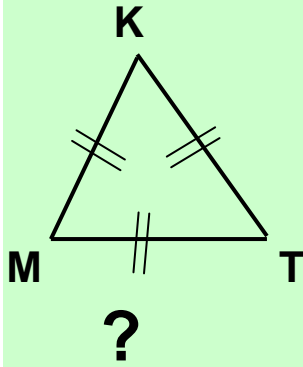
79



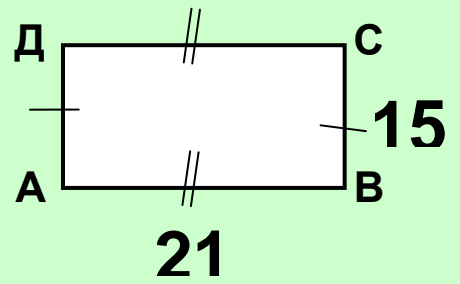
$$P_{\triangle} = P_{\square}$$



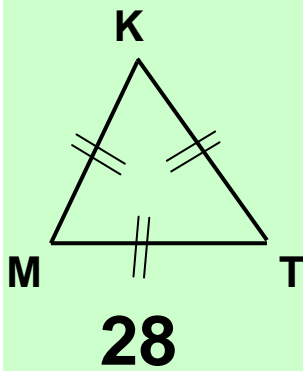
80



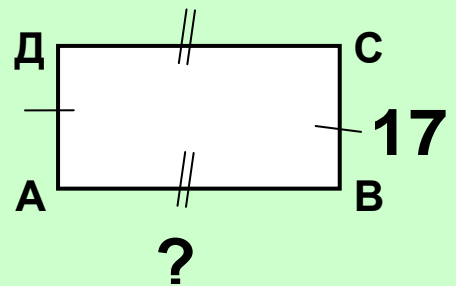
$$P_{\triangle} = P_{\square}$$



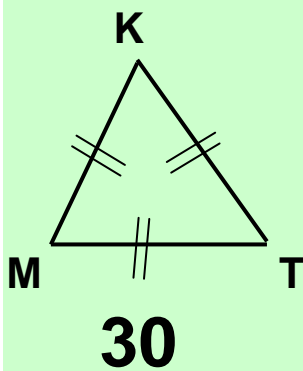
81



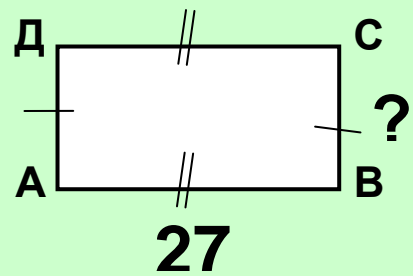
$$P_{\triangle} = P_{\square}$$

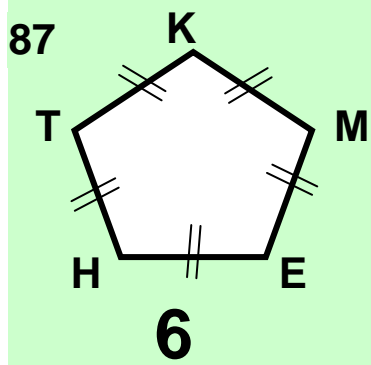


82

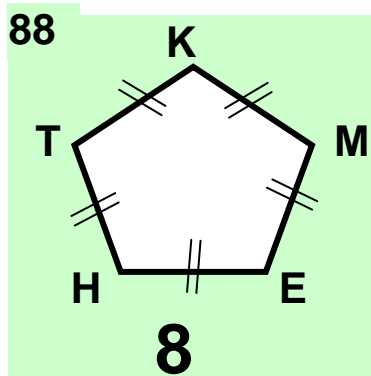
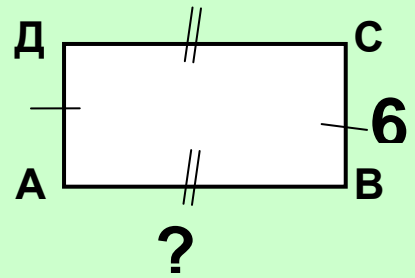


$$P_{\triangle} = P_{\square}$$

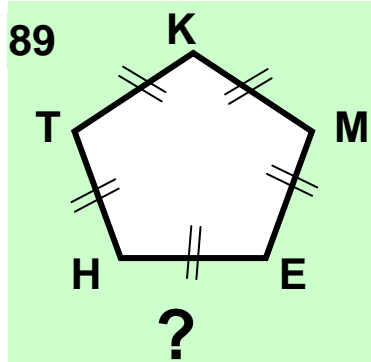
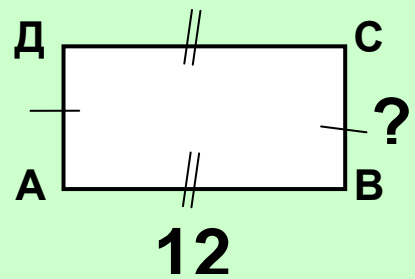




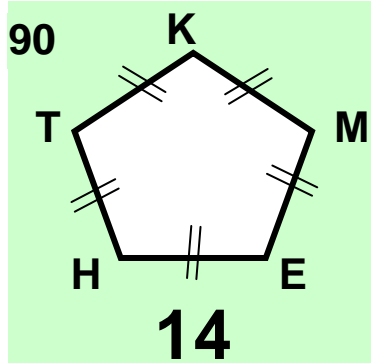
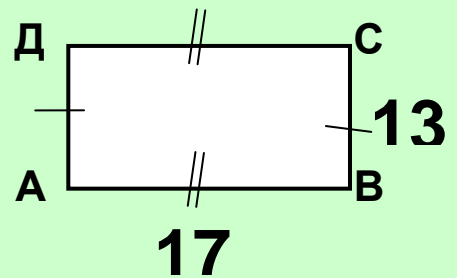
$$P_{\text{pentagon}} = P_{\text{rectangle}}$$



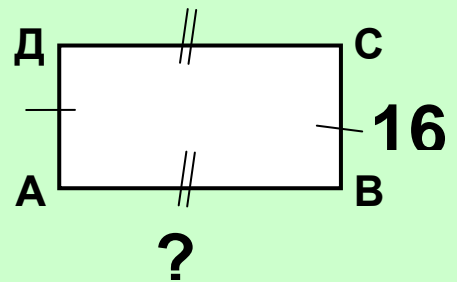
$$P_{\text{pentagon}} = P_{\text{rectangle}}$$



$$P_{\text{pentagon}} = P_{\text{rectangle}}$$



$$P_{\text{pentagon}} = P_{\text{rectangle}}$$



91

16

$P_{\text{pentagon}} = P_{\text{rectangle}}$

23

92

?

$P_{\text{pentagon}} = P_{\text{rectangle}}$

27

93

20

$P_{\text{pentagon}} = P_{\text{rectangle}}$

?

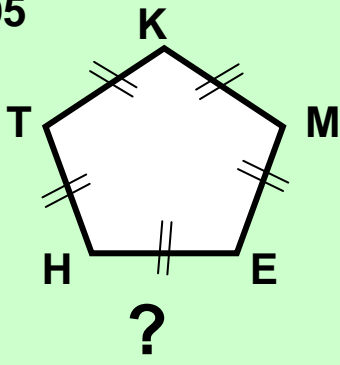
94

24

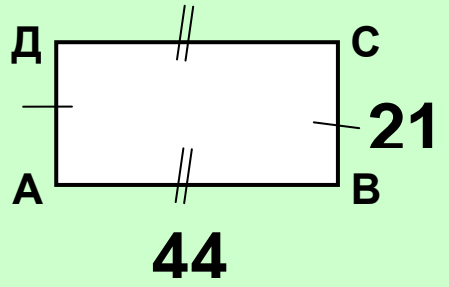
$P_{\text{pentagon}} = P_{\text{rectangle}}$

34

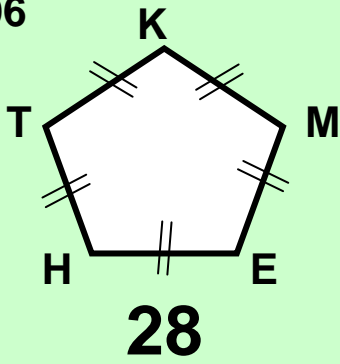
95



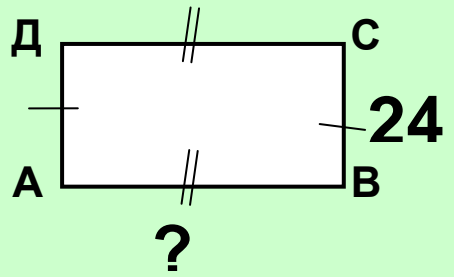
$$P_{\text{pentagon}} = P_{\text{rectangle}}$$



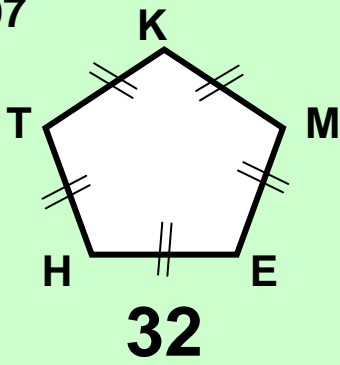
96



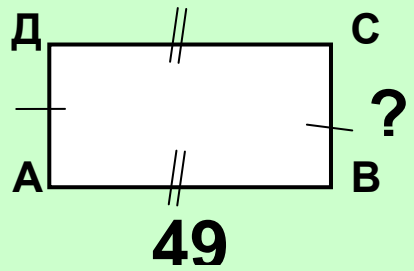
$$P_{\text{pentagon}} = P_{\text{rectangle}}$$



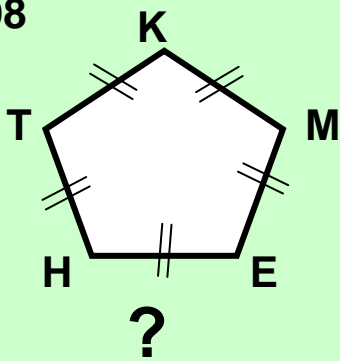
97



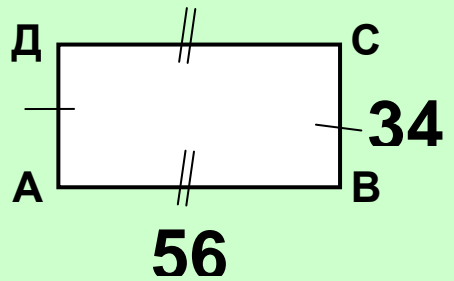
$$P_{\text{pentagon}} = P_{\text{rectangle}}$$



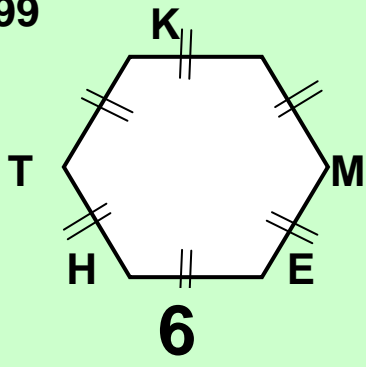
98



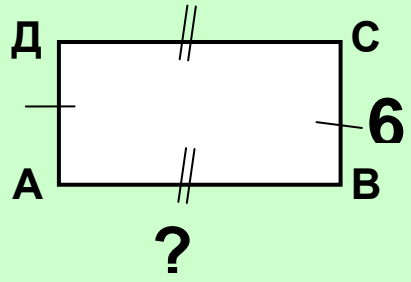
$$P_{\text{pentagon}} = P_{\text{rectangle}}$$



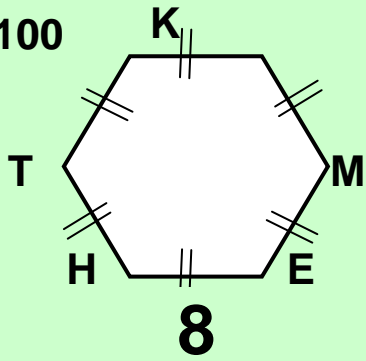
99



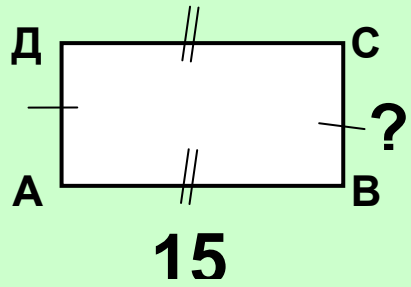
$$P_{\text{hexagon}} = P_{\text{rectangle}}$$



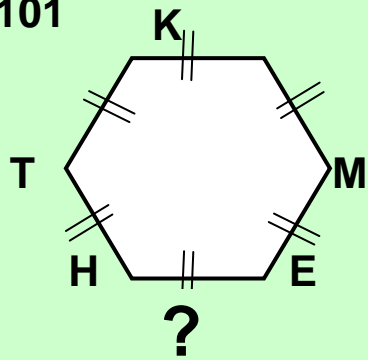
100



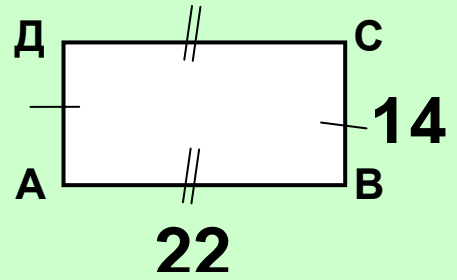
$$P_{\text{hexagon}} = P_{\text{rectangle}}$$



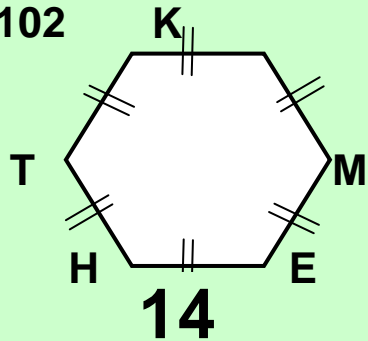
101



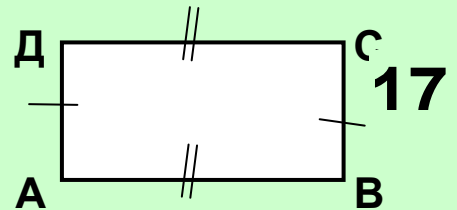
$$P_{\text{hexagon}} = P_{\text{rectangle}}$$



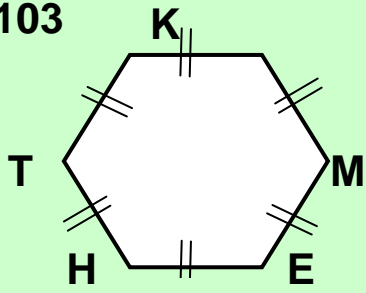
102



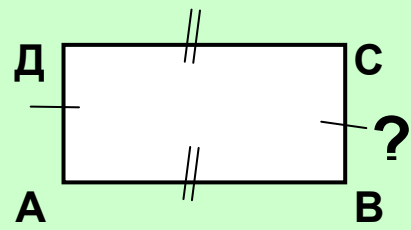
$$P_{\text{hexagon}} = P_{\text{rectangle}}$$



103

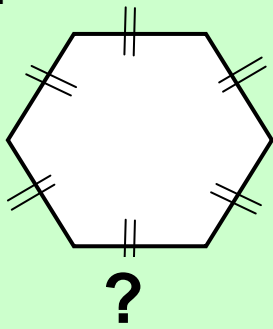


$$P_{\text{hexagon}} = P_{\text{rectangle}}$$

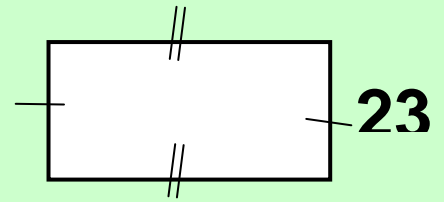


28

104

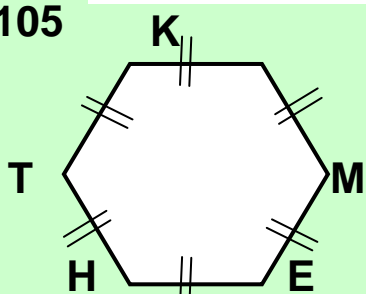


$$P_{\text{hexagon}} = P_{\text{rectangle}}$$

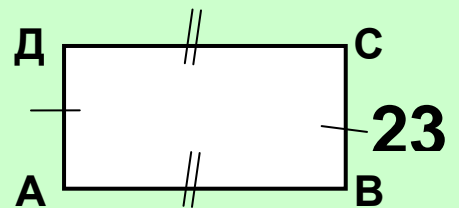


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105



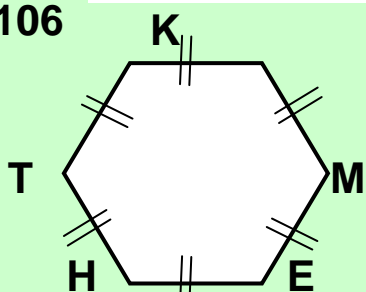
$$P_{\text{hexagon}} = P_{\text{rectangle}}$$



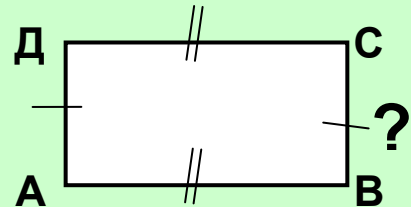
20

?

106



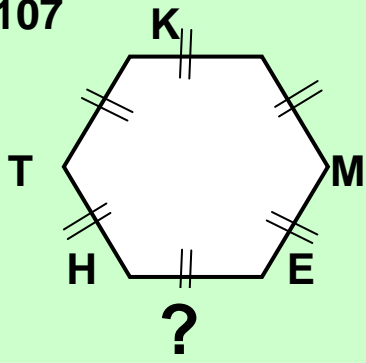
$$P_{\text{hexagon}} = P_{\text{rectangle}}$$



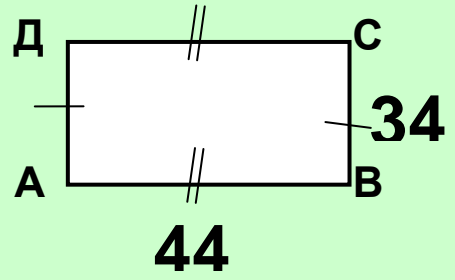
24

38

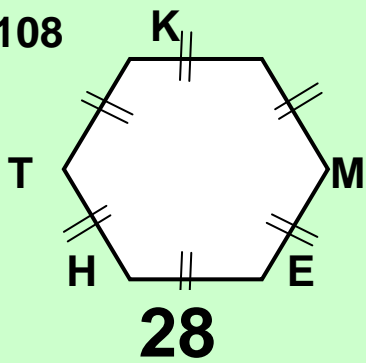
107



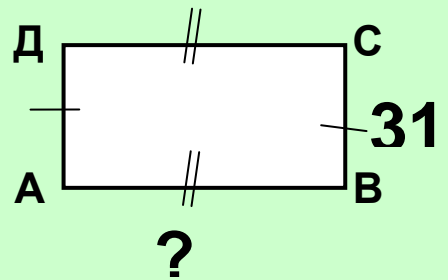
$$P_{\text{hexagon}} = P_{\text{rectangle}}$$



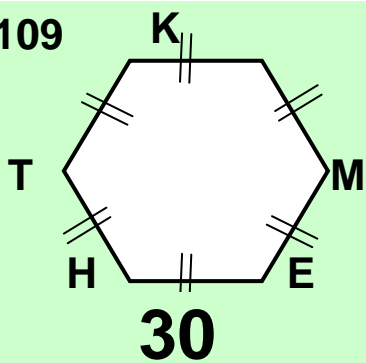
108



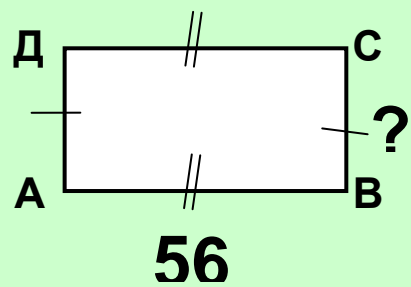
$$P_{\text{hexagon}} = P_{\text{rectangle}}$$



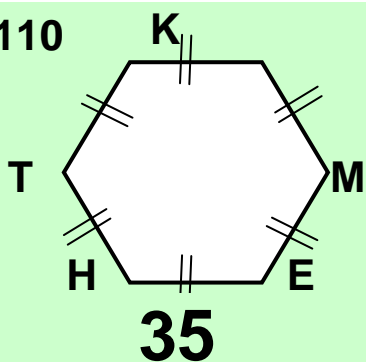
109



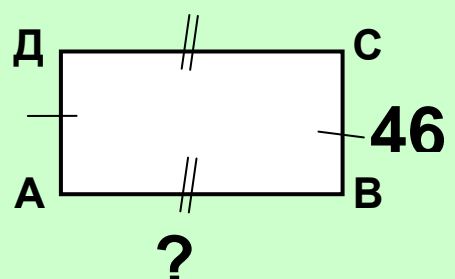
$$P_{\text{hexagon}} = P_{\text{rectangle}}$$



110

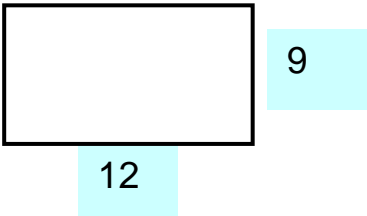
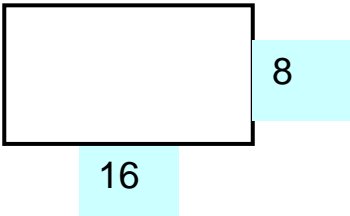
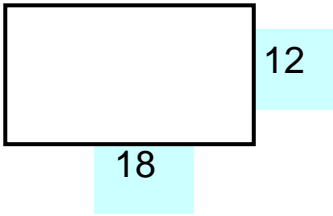


$$P_{\text{hexagon}} = P_{\text{rectangle}}$$



ПЛОЩАДЬ ПРЯМОУГОЛЬНИКА

1. Найти площадь (S) и периметр (P) прямоугольника

1)  2)  3) 

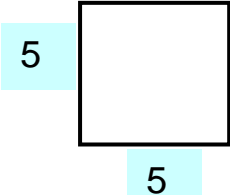
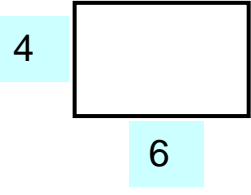
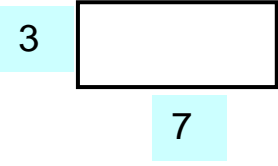
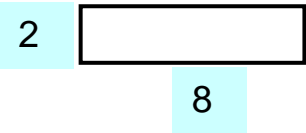
2. Как изменится площадь прямоугольника с заданными данными если:

1) длину — увеличить на 5,
высоту — увеличить на 5

2) длину — увеличить на 3
высоту — уменьшить на 3

3) длину — уменьшить на 3
высоту — увеличить на 3

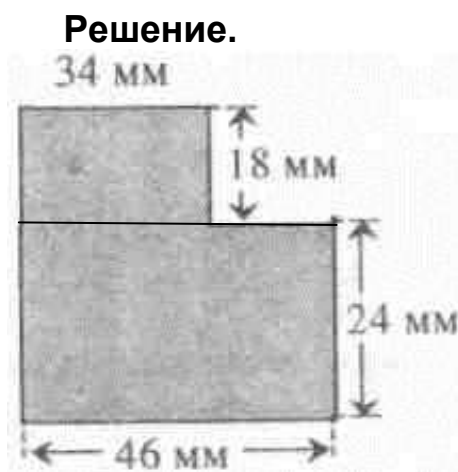
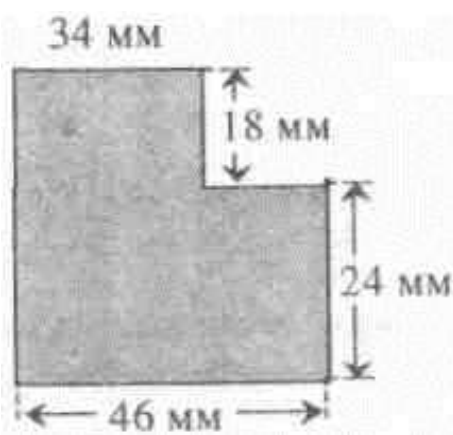
3) длину — уменьшить в 2 раза
высоту — увеличить в 2 раза

3.    

$P = ?$ $S = ?$ $P = ?$ $S = ?$ $P = ?$ $S = ?$ $P = ?$ $S = ?$

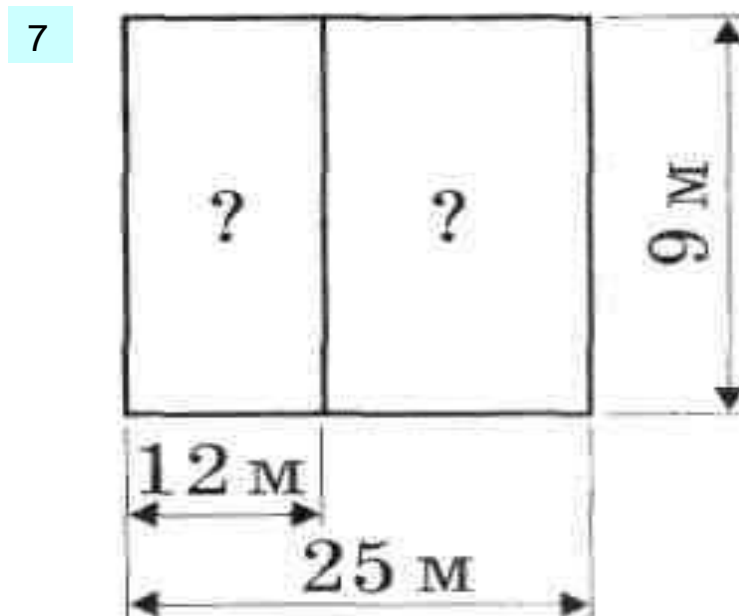
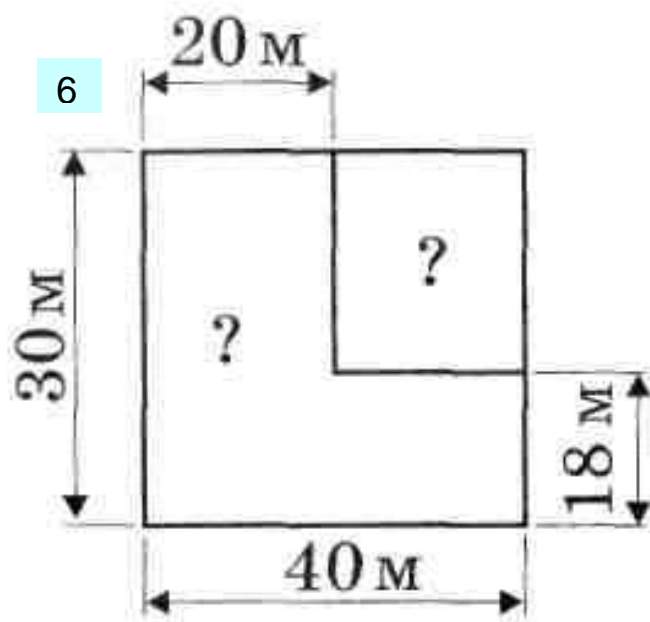
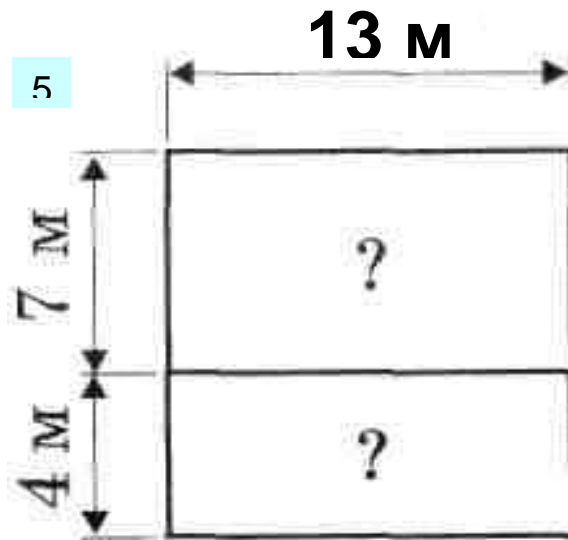
Какой вывод можно сделать после решения этих заданий?

4. Найти площадь фигуры.

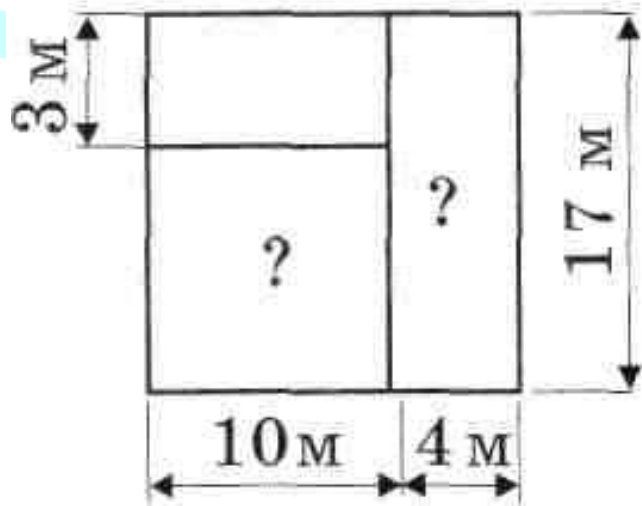


$$34 \cdot 18 = 612(\text{мм}^2)$$
$$46 \cdot 24 = 1104(\text{мм}^2)$$
$$1104 + 612 = 1716(\text{мм}^2)$$

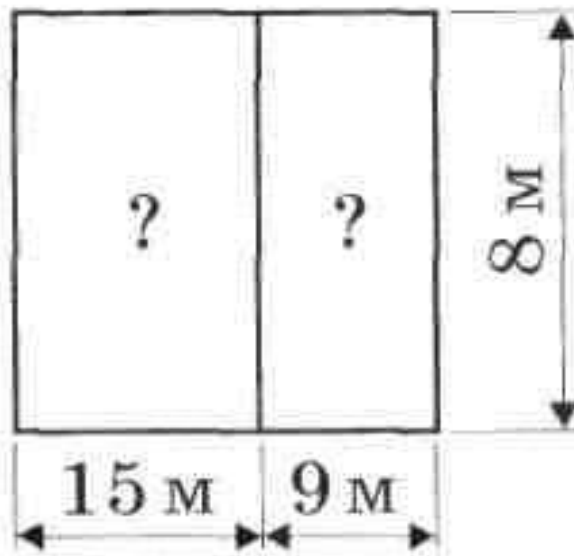
Ответ. 1716мм^2



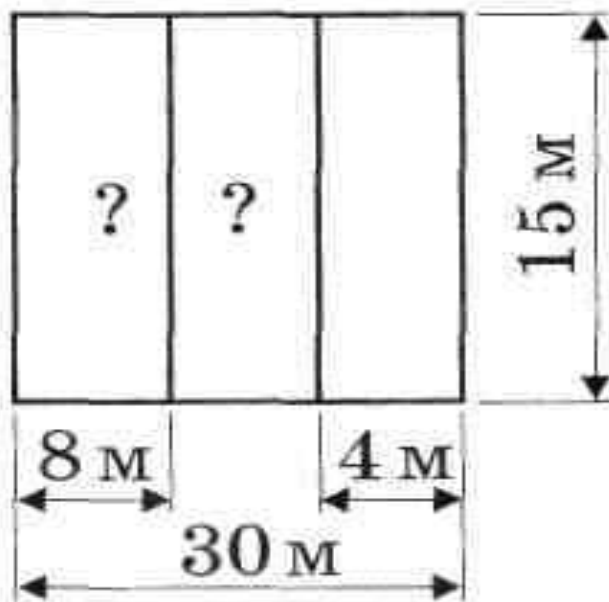
8.



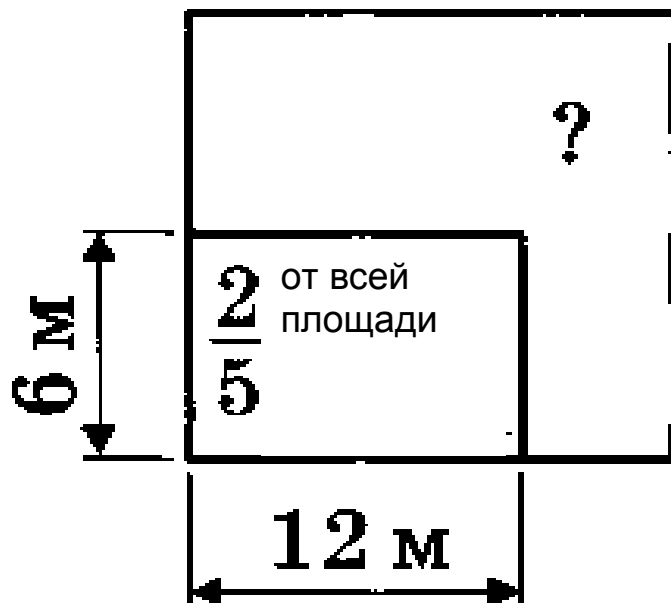
9.



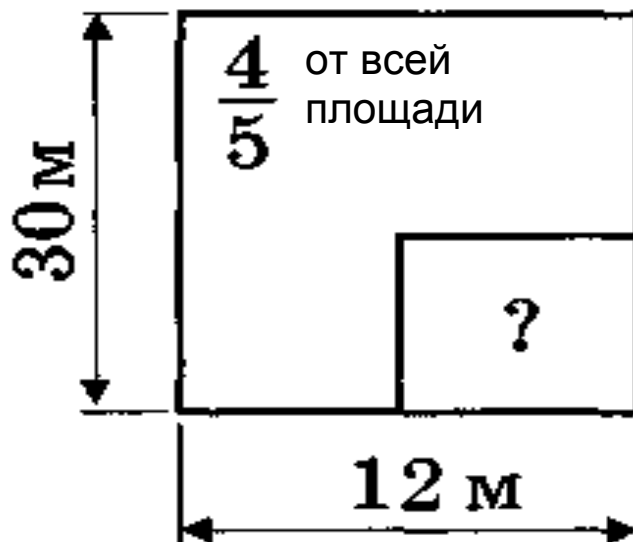
10.



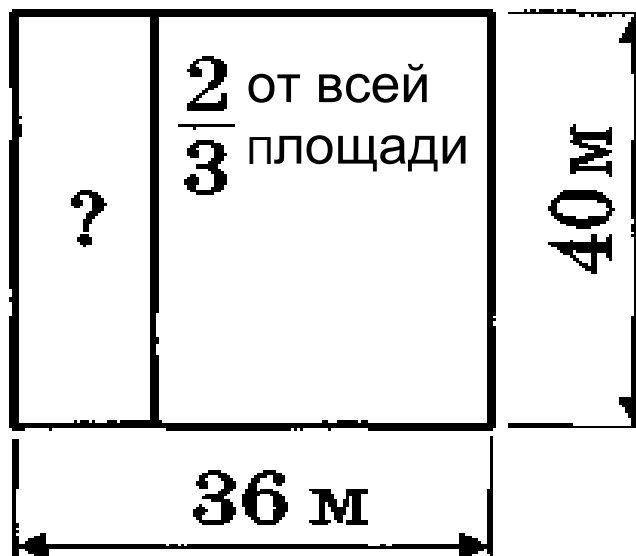
11.



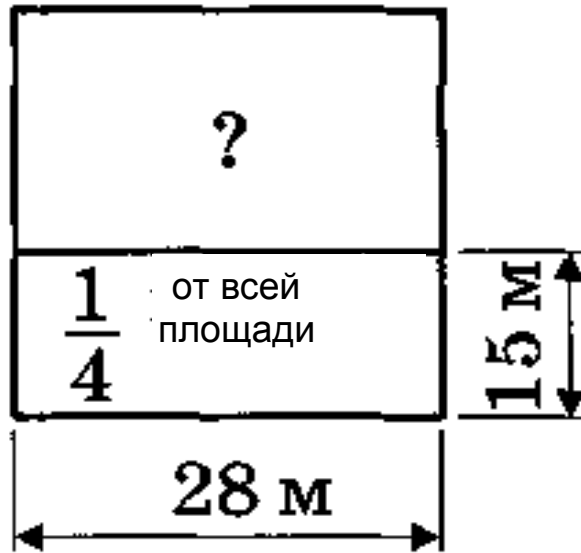
12.



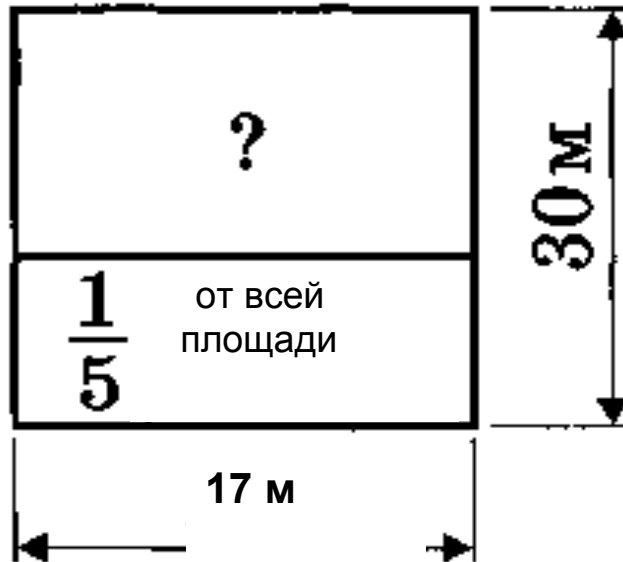
13.



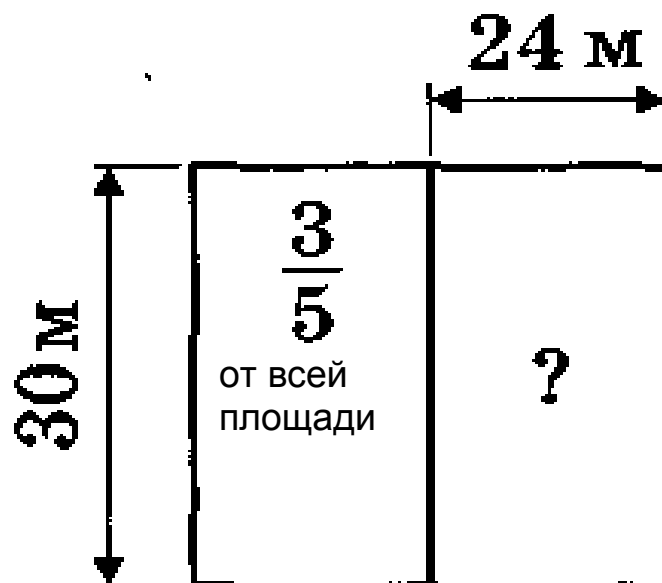
14.



15.



16.



1. КАК ИЗМЕНИТСЯ ПЕРИМЕТР ПРЯМОУГОЛЬНИКА С ИЗМЕНЕНИЕМ ДАННЫХ (проверить вычислением)

986

P = ?

2 927

- 1) длину увеличить на 385
высоту увеличить на 276
- 2) длину увеличить на 706
высоту уменьшить на 289
- 3) длину увеличить на 280
высоту уменьшить на 321
- 4) длину уменьшить на 686
высоту уменьшить на 509
- 5) длину уменьшить на 199
высоту увеличить на 306
- 6) длину увеличить на 788
высоту уменьшить на 275

2. КАК ИЗМЕНИТСЯ ПЛОЩАДЬ ПРЯМОУГОЛЬНИКА С ИЗМЕНЕНИЕМ ДАННЫХ (проверить вычислением)

34

S = ?

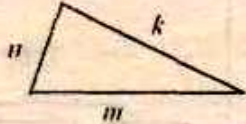
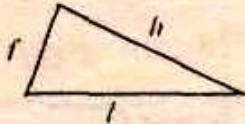
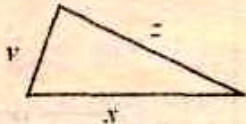
57

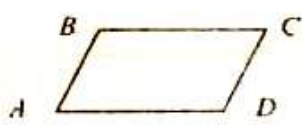
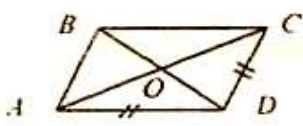
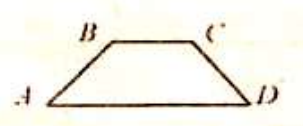
- 1) длину увеличить на 5
- 2) длину уменьшить на 7
- 3) длину увеличить на 8
высоту уменьшить на 2
- 4) длину уменьшить на 6
высоту уменьшить на 7
- 5) длину уменьшить на 9
высоту увеличить на 6
- 6) длину увеличить на 7
высоту уменьшить на 5

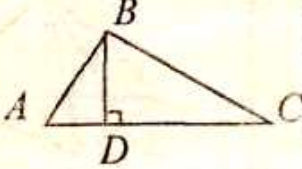
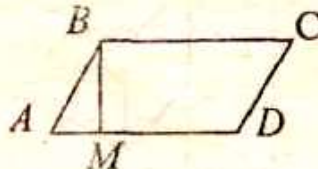
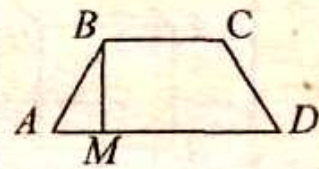
Задачи разные

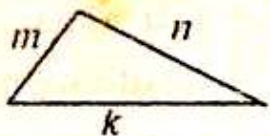
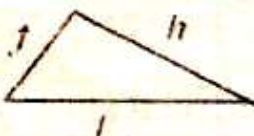
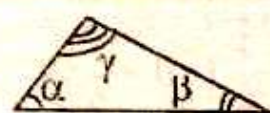
	A	B	C
1	$\angle BAC = 43^\circ$ $\angle DAC = ?$	$\angle MON = 137^\circ$ $\angle KON = ?$	$\angle FOK = 43^\circ$ $\angle POK - \angle FOK = ?$
2	$\angle DAC - \angle BAC = 48^\circ$ $\angle BAC = ?$	$\angle MON - \angle KON = 56^\circ$ $\angle MON = ?$	$\angle POK - \angle FOK = 140^\circ$ $\angle FOK = ?$
3	$\frac{1}{2} \angle DAC = 81^\circ$ $\angle BAC = ?$	$\frac{1}{4} \angle MON = 43^\circ$ $\angle MON - \angle KON = ?$	$\frac{1}{3} \angle POK = 43^\circ$ $\angle FOK = ?$
4	$6\angle BAC = 132^\circ$ $\angle DAC - \angle BAC = ?$	$9\angle KON = 360^\circ$ $\angle MON = ?$	$7\angle FOK = 217^\circ$ $\angle POK = ?$
5	$\frac{3}{5} \angle DAC = 96^\circ$ $\angle BAC = ?$	$\frac{5}{9} \angle MON = 95^\circ$ $\angle MON - \angle KON = ?$	$\frac{6}{7} \angle POK = 132^\circ$ $\angle FOK = ?$
6	$1\frac{2}{3} \angle BAC = 100^\circ$ $\angle DAC = ?$	$2\frac{1}{3} \angle KON = 98^\circ$ $\angle MON = ?$	$2\frac{1}{4} \angle FOK = 108^\circ$ $\angle POK - \angle FOK = ?$
7	$\angle DAC = 5\angle BAC$ $\angle BAC = ?$	$\frac{\angle KON}{\angle MON} = \frac{1}{5}$ $\angle KON = ?$	$\frac{\angle FOK}{\angle POK} = \frac{1}{17}$ $\angle POK = ?$
8	$\frac{\angle DAC}{\angle BAC} = \frac{5}{4}$ $\angle DAC = ?$	$8\angle KON = \angle NOM$ $\angle KON = ?$	$\angle FOK = \frac{4}{5} \angle POK$ $\angle FOK = ?$

Найти стороны треугольника

	A	B	C
			
1	$P = 42$ $k = P - 28$ $m = \frac{3}{2}k - 7$	$P = 52$ $l = \frac{4}{13}P;$ $h = \frac{1}{4}P + 5$	$P = 72$ $x = \frac{5}{12}P - 6;$ $z = \frac{1}{4}P + 6$
2	$P = 42$ $m = \frac{2}{7}P;$ $n = \frac{1}{3}P$	$P = 62$ $h + f = \frac{1}{2}P + 5;$ $l + h = \frac{21}{31}P + 3$	$P = 68$ $x = \frac{6}{17}P;$ $x + z = \frac{11}{17}P$
3	$P = 160$ $k = 0,3P$ $n = 1,25k$	$P = 54$ $h = \frac{7}{9}P - 24;$ $l = \frac{5}{6}P - 27$	$P = 78$ $x = \frac{1}{6}P + 7;$ $y = \frac{5}{13}P + 2$
4	$m = \frac{4}{11}P - 2$ $P = 44;$ $n = \frac{5}{7}m + 4$	$P = 180$ $f = 0,8P - 84$ $h = 0,4P - 24$	$P = 120$ $x = 0,3P + 4$ $z = 0,5P - 20$
5	$P = 50$ $k + m = \frac{17}{25}P;$ $n + k = \frac{4}{5}P - 9$	$P = 126$ $f + l = \frac{5}{9}P + 10;$ $f + h = \frac{5}{6}P - 17$	$P = 100$ $x = 0,3P$ $y = 1,2x$

	A	B	C
1	 <p> $AD = AB + 7$ $P = 50$ Найти AD </p>	 <p> $P_{ABCD} = 80$ $BD + AC = 56$ Найти P_{AOD} </p>	 <p> $AB = BC = CD$ $AD = BC + 8$ $P = 60$ Найти AD </p>
2	<p> $AD = 3AB$ $P = 64$ Найти AD </p>	<p> $P_{AOD} = 18$ $AC + BD = 22$ Найти AD </p>	<p> $AB = CD$ $BC = AB - 2$ $AD = AB + 15$ $P = 41$ Найти BC, AD </p>
3	<p> $AD - AB = 6$ $P = 64$ Найти AB </p>	<p> $P_{ABCD} = 60$ $AD : BD = 5 : 4$ Найти BD </p>	<p> $AB = BC = CD$ $AD = 2BC$ $P = 80$ Найти AB, AD </p>
4	<p> $AB : AD = 2 : 5$ $P = 98$ Найти AD </p>	<p> $P_{ACD} = 54$ $P_{ABCD} = 60$ Найти AC </p>	<p> $AB = BC = CD$ $AB : AD = 2 : 5$ $AD - BC = 63$ Найти AB, AD </p>
5	<p> $AB : BD : AD = 3 : 5 : 6$ $P_{ABCD} = 54$ Найти BD </p>	<p> $AC = AD + 6$ $P_{ACD} = 60$ Найти AC </p>	<p> $BC = AB + 2$ $CD = BC + 1$ $AD = AB + 6$ $P = 47$ Найти AB, AD </p>

	A	B	C
1	 <p> $S_{ABC} = 48, BD = 8$ $AC = ?$ </p>	 <p> $AD : BM = 3 : 2$ $AD + BM = 20$ $S_{ABCD} = ?$ </p>	 <p> $S_{ABCD} = 112$ $AD : BC = 9 : 5$ $BM = 8$ $AD = ? BC = ?$ </p>
2	<p> $S_{ABC} = 120$ $AC = 16$ $BD = ?$ </p>	<p> $BM : AD = 7 : 8$ $BM + 2 = AD$ $S_{ABCD} = ?$ </p>	<p> $AD = 3BC$ $BM = BC - 1$ $BM + AD = 39$ $S_{ABCD} = ?$ </p>
3	<p> $BD : AC = 2 : 3$ $AC + BD = 40$ $S_{ABC} = ?$ </p>	<p> $S_{ABCD} = 216$ $BM = 12$ $AB = AD - 2$ $P_{ABCD} = ?$ </p>	<p> $AD : BC = 10 : 7$ $AD - BC = 6$ $BM = 7$ $S_{ABCD} = ?$ </p>
4	<p> $AC : BD = 10 : 9$ $BD = 18$ $S_{ABC} = ?$ </p>	<p> $P_{ABCD} = 40$ $BM = 6$ $AD = AB + 4$ $S_{ABCD} = ?$ </p>	<p> $BC = BM + 5$ $AD = BM + 16$ $AD + BC = 30$ $S_{ABCD} = ?$ </p>
5	<p> $AC : BD = 11 : 7$ $AC - BD = 32$ $S_{ABC} = ?$ </p>	<p> $AB : AD = 3 : 4$ $P_{ABCD} = 70$ $BM = AB - 3$ $S_{ABCD} = ?$ </p>	<p> $AD + BC = 26$ $AD - BC = 6$ $BM = 4$ $S_{ABCD} = ?$ </p>

	A	B	C
1	 <p> $m : n : k = 5 : 7 : 9$ $P = 105$ $m = ? \quad n = ? \quad k = ?$ </p>	 <p> $f : h : l = 24 : 20 : 21$ $P = 260$ $f = ? \quad h = ? \quad l = ?$ </p>	 <p> $\alpha : \beta : \gamma = 5 : 4 : 9$ $\alpha = ? \quad \beta = ? \quad \gamma = ?$ </p>
2	<p> $m : n = 15 : 16$ $k = 18$ $P = 49$ $m = ? \quad n = ?$ </p>	<p> $f : l = 10 : 11$ $h = 36$ $P = 120$ $f = ? \quad l = ?$ </p>	<p> $\alpha : \beta = 1 : 3$ $\gamma = \beta - 37^\circ$ $\alpha = ? \quad \beta = ? \quad \gamma = ?$ </p>
3	<p> $m : k = 3 : 4$ $k : n = 16 : 15$ $P = 43$ $m = ? \quad n = ? \quad k = ?$ </p>	<p> $f : h = 12 : 11$ $l = f + 1$ $P = 71$ $f = ? \quad h = ? \quad l = ?$ </p>	<p> $\alpha : \beta = 13 : 9$ $\gamma = \alpha - 30^\circ$ $\alpha = ? \quad \beta = ? \quad \gamma = ?$ </p>
4	<p> $n : k = 5 : 6$ $m = n - 2$ $P = 62$ $m = ? \quad n = ? \quad k = ?$ </p>	<p> $f : l = 2 : 3$ $l : h = 12 : 9$ $P = 58$ $f = ? \quad h = ? \quad l = ?$ </p>	<p> $\alpha : \beta = 1 : 2$ $\beta : \gamma = 2 : 3$ $\alpha = ? \quad \beta = ? \quad \gamma = ?$ </p>
5	<p> $m : n = 2 : 3 \quad P = 36$ $k = m + 8$ $m = ? \quad n = ? \quad k = ?$ </p>	<p> $h : f = 1 : 5, \quad P = 100$ $l = f + 1$ $f = ? \quad h = ? \quad l = ?$ </p>	<p> $\alpha : \beta : \gamma = 7 : 8 : 21$ $\alpha = ? \quad \beta = ? \quad \gamma = ?$ </p>