



國際數學競賽

INTERNATIONAL MATHEMATICS COMPETITION
Changchun China, 27 July ~ 1 August 2015

60

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-

	10	40	1
3 5 7 9			
2 4 6 8 10			

-
-
-

	10		
	35		
15			

Simplified Chinese Version

	1	2	3	4	5	6	7	8	9	10		

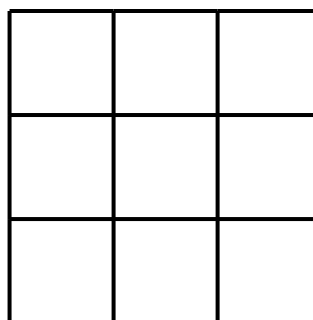
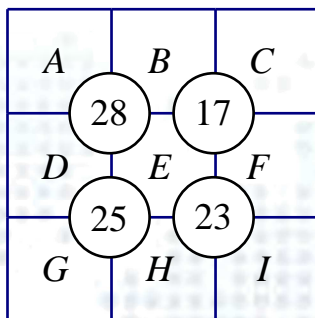


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1. 1 2 3 4 5 6 7 8 9



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2.



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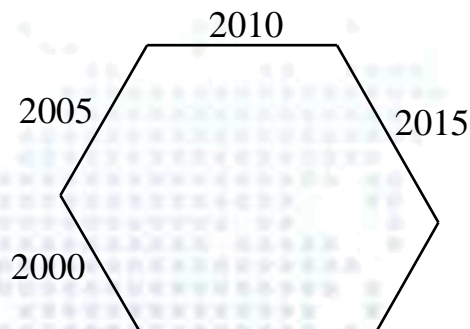


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3. 120° 2000 cm
 2005 cm 2010 cm 2015 cm cm



: _____ cm





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4.

4×4



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5.

100



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$$6. \quad \frac{\frac{100}{5}}{\frac{9}{999}}$$



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7.

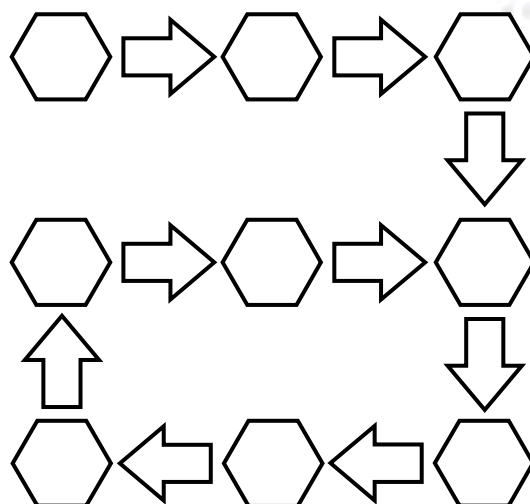
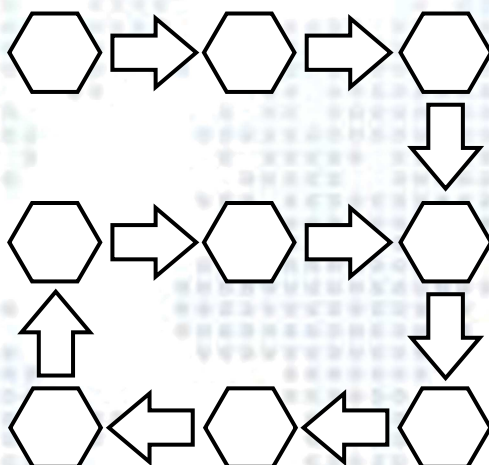
6

÷9 +16

2 4 5 6 7 18 20 36

-1

-1 ÷2 +3 ×3 +4 ×4



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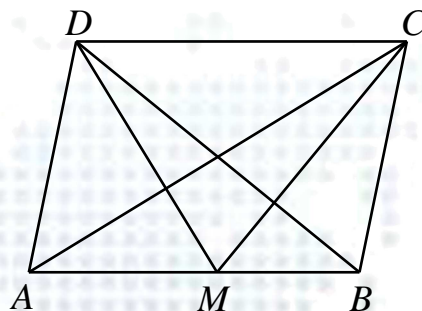


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8. M is a point on AB of $ABCD$ such that $AM : MB = 4 : 3$. The area of $\triangle DMC$ is $\frac{1}{2}$ of the area of $ABCD$. Find the area of $ABCD$ in cm^2 .



: _____ cm^2



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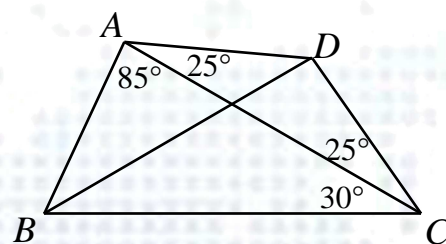
9.



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10. $ABCD$ $\angle DAC = \angle DCA = 25^\circ$, $\angle BAC = 85^\circ$ $\angle ACB = 30^\circ$
 $\angle BDC$



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