



図形・測量編

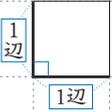
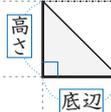
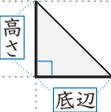
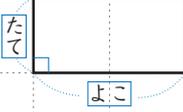
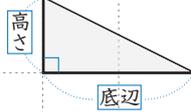
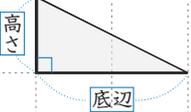
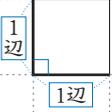
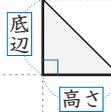
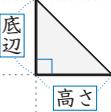
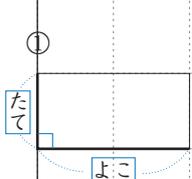
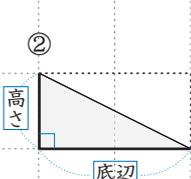
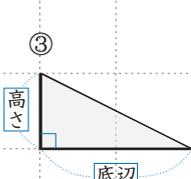
方眼 A4

次の図形は、**1辺が1cmの正方形**が**いくつ**でできていますか。
めんせき もと

面積を求める式を書きなさい。

※1辺が1cmの正方形の面積を へいほう **1平方センチメートル** と言い、
 1cm^2 と表します。

例

<p>①</p>  <p>1×1</p>	<p>②</p>  <p>$1 \times 1 \div 2$</p>	<p>③</p>  <p>$1 \times 1 \div 2$</p>
<p>①</p>  <p>1×2</p>	<p>②</p>  <p>$2 \times 1 \div 2$</p>	<p>③</p>  <p>$2 \times 1 \div 2$</p>
<p><上の図形は、見方を変えれば、たてとよこ、底辺と高さを入れ替えても、面積は変わりません。></p>		
<p>①</p>  <p>1×1</p>	<p>②</p>  <p>$1 \times 1 \div 2$</p>	<p>③</p>  <p>$1 \times 1 \div 2$</p>
<p>①</p>  <p>$1 \times 2 = 2 \times 1$</p>	<p>②</p>  <p>$2 \times 1 \div 2 = 1 \times 2 \div 2$</p>	<p>③</p>  <p>$2 \times 1 \div 2 = 1 \times 2 \div 2$</p>

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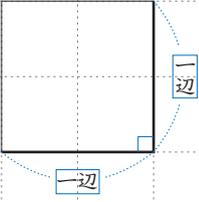
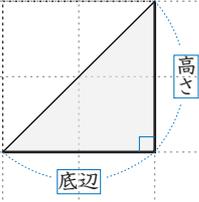
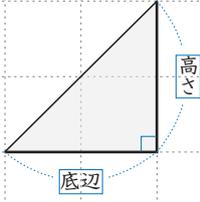
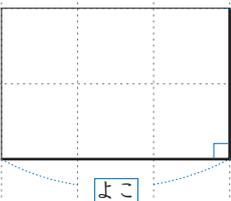
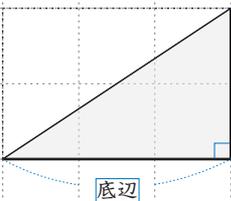
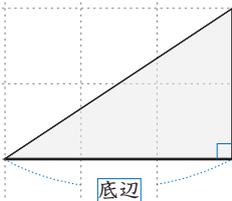
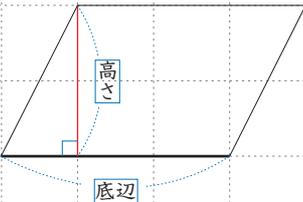
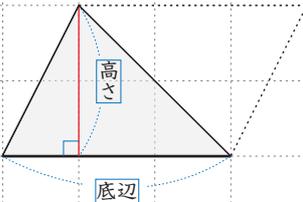
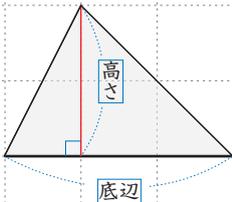
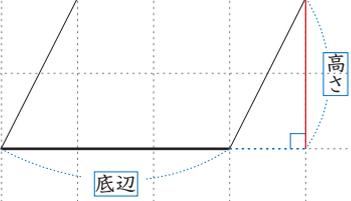
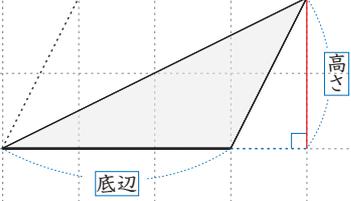
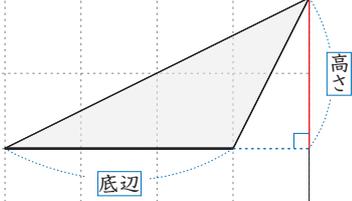
例

<p>①</p> <p>1×1</p>	<p>②</p> <p>$1 \times 1 \div 2$</p>	<p>③</p> <p>$1 \times 1 \div 2$</p>
<p>①</p> <p>1×1</p>	<p>②</p> <p>$1 \times 1 \div 2$</p>	<p>③</p> <p>$1 \times 1 \div 2$</p>
<p>①</p> <p>4×2</p>	<p>②</p> <p>$4 \times 2 \div 2$</p>	<p>③</p> <p>$4 \times 2 \div 2$</p>
<p>①</p> <p>4×2</p>	<p>②</p> <p>$4 \times 2 \div 2$</p>	<p>③</p> <p>$4 \times 2 \div 2$</p>

次の図形は、1辺が1cmの正方形がいくつでできていますか。

面積を求める式 を書きなさい。

※1辺が1cmの正方形の面積を1平方センチメートルと言い、 1cm^2 と表します。

<p>①</p>  <p>2×2</p>	<p>②</p>  <p>$2 \times 2 \div 2$</p>	<p>③</p>  <p>$2 \times 2 \div 2$</p>
<p>①</p>  <p>2×3 or 3×2</p>	<p>②</p>  <p>$3 \times 2 \div 2$</p>	<p>③</p>  <p>$3 \times 2 \div 2$</p>
<p>①</p>  <p>3×2</p>	<p>②</p>  <p>$3 \times 2 \div 2$</p>	<p>③</p>  <p>$3 \times 2 \div 2$</p>
<p>①</p>  <p>3×2</p>	<p>②</p>  <p>$3 \times 2 \div 2$</p>	<p>③</p>  <p>$3 \times 2 \div 2$</p>

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<p>①</p> <p>3×3</p>	<p>②</p> <p>$3 \times 3 \div 2$</p>	<p>③</p> <p>$3 \times 3 \div 2$</p>
<p>①</p> <p>$3 \times 4 \text{ or } 4 \times 3$</p>	<p>②</p> <p>$4 \times 3 \div 2$</p>	<p>③</p> <p>$4 \times 3 \div 2$</p>
<p>①</p> <p>4×3</p>	<p>②</p> <p>$4 \times 3 \div 2$</p>	<p>③</p> <p>$4 \times 3 \div 2$</p>
<p>①</p> <p>4×3</p>	<p>②</p> <p>$4 \times 3 \div 2$</p>	<p>③</p> <p>$4 \times 3 \div 2$</p>

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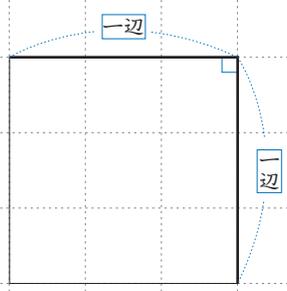
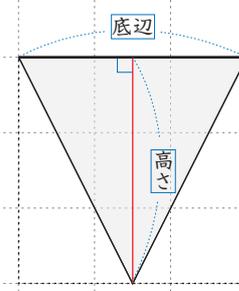
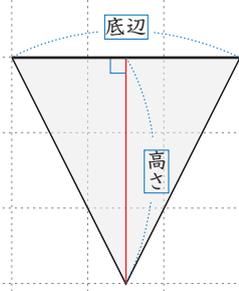
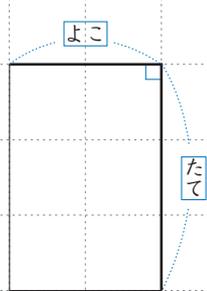
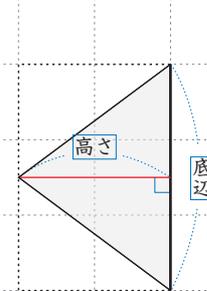
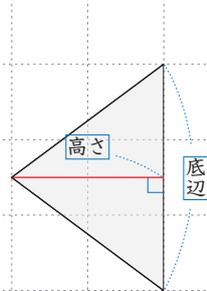
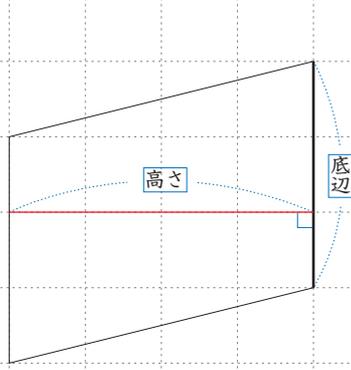
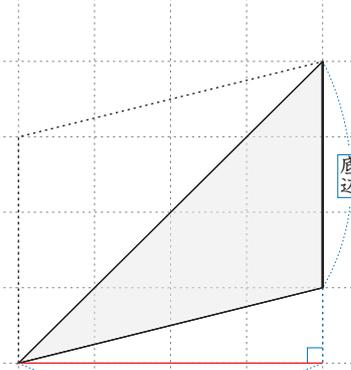
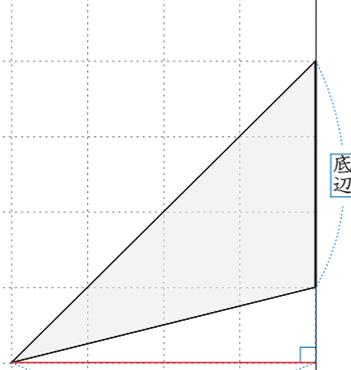
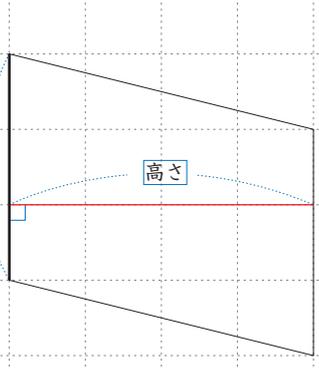
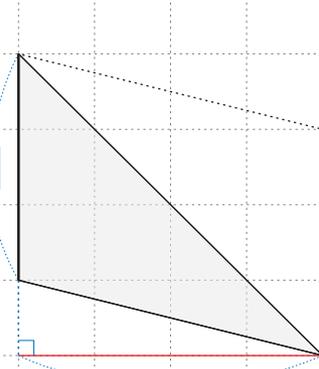
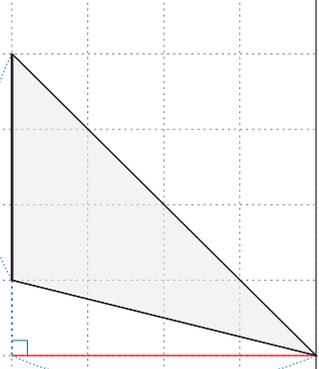
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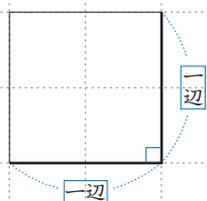
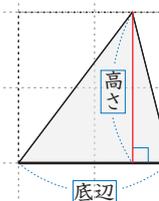
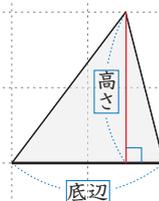
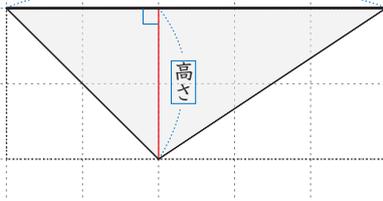
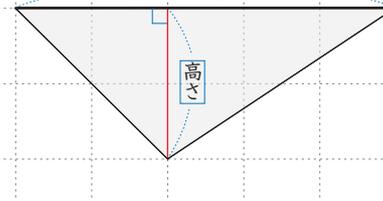
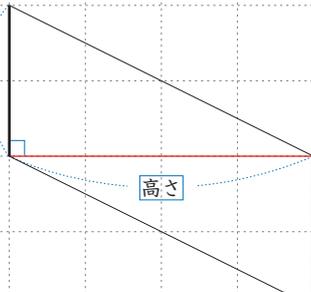
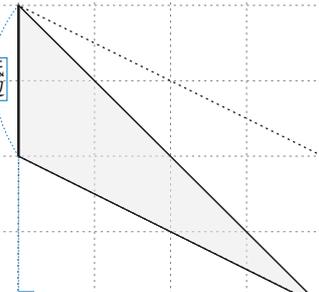
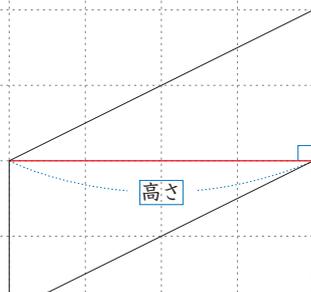
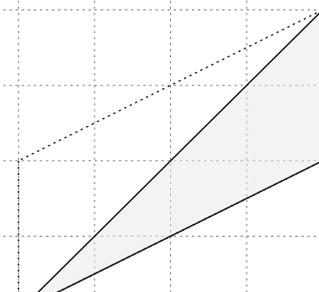
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<p>①</p>  <p>3×2 or 2×3</p>	<p>②</p>  <p>$3 \times 2 \div 2$</p>	<p>③</p>  <p>$3 \times 2 \div 2$</p>
<p>①</p>  <p>3×4</p>	<p>②</p>  <p>$3 \times 4 \div 2$</p>	<p>③</p>  <p>$3 \times 4 \div 2$</p>
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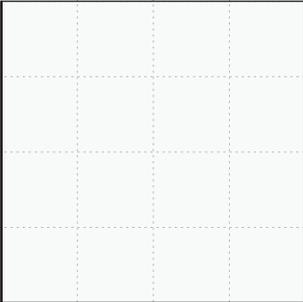
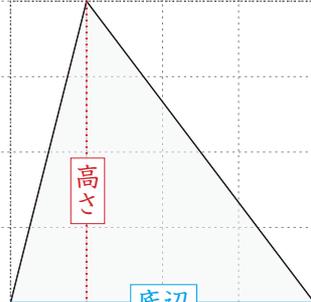
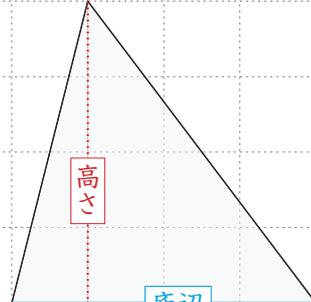
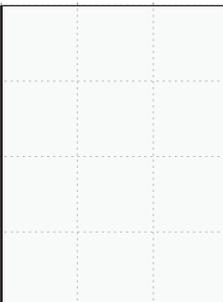
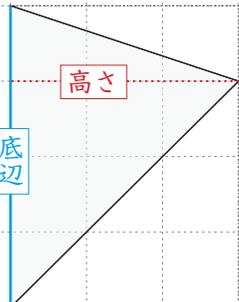
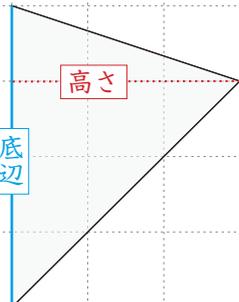
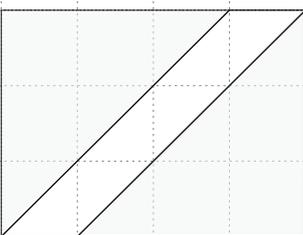
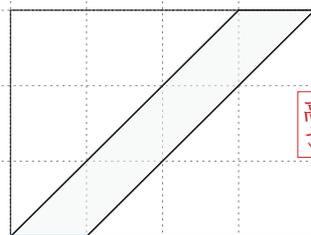
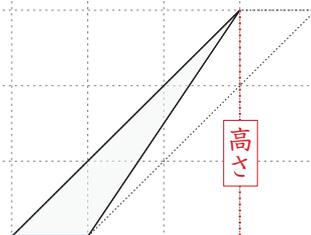
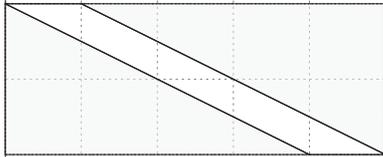
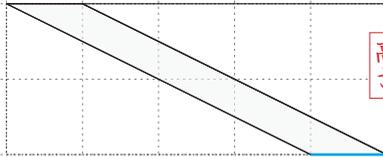
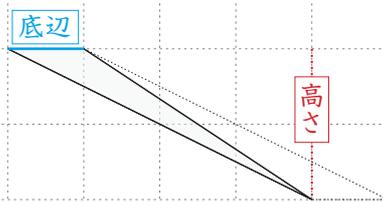
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<p>①</p>  <p>2×5 or 5×2</p>	<p>②</p>  <p>$5 \times 2 \div 2$</p>	<p>③</p>  <p>$5 \times 2 \div 2$</p>
<p>①</p>  <p>2×4</p>	<p>②</p>  <p>$2 \times 4 \div 2$</p>	<p>③</p>  <p>$2 \times 4 \div 2$</p>
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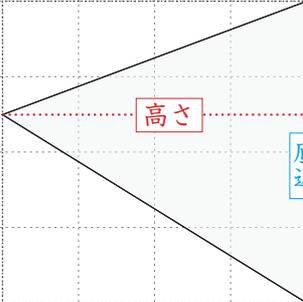
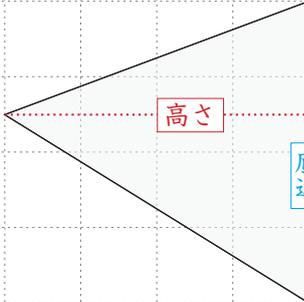
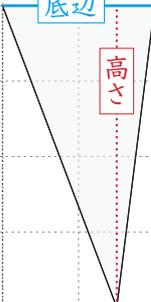
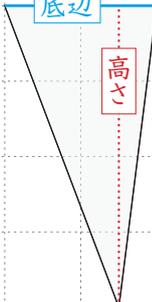
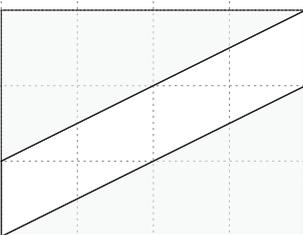
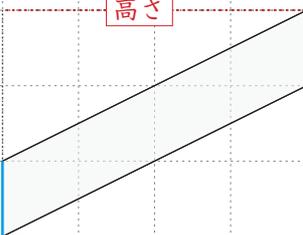
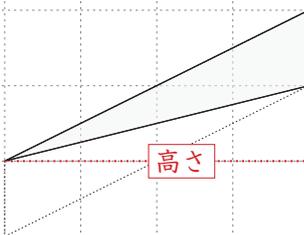
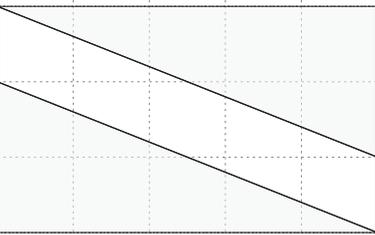
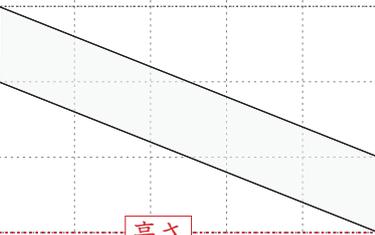
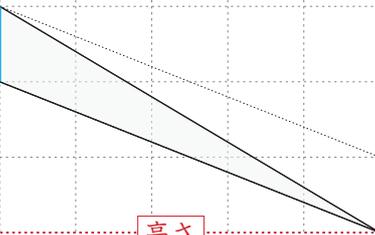
次の図形は、1辺が1cmの正方形がいくつでできていますか。

網かけした部分の面積を求める式を書きなさい。※1辺が1cmの正方形の面積を1平方センチメートルと言い、 1cm^2 と表します。

<p>①</p>  <p>4×4</p>	<p>② 図の中に、底辺と高さも書き込みなさい。</p>  <p>$4 \times 4 \div 2$</p>	<p>③ 図の中に、底辺と高さも書き込みなさい。</p>  <p>$4 \times 4 \div 2$</p>
<p>①</p>  <p>4×3 or 3×4</p>	<p>② 図の中に、底辺と高さも書き込みなさい。</p>  <p>$4 \times 3 \div 2$</p>	<p>③ 図の中に、底辺と高さも書き込みなさい。</p>  <p>$4 \times 3 \div 2$</p>
<p>①</p>  <p>3×3</p> <p>$3 \times 3 \div 2 \times 2$</p>	<p>② 図の中に、底辺と高さも書き込みなさい。</p>  <p>1×3</p>	<p>③ 図の中に、底辺と高さも書き込みなさい。</p>  <p>$1 \times 3 \div 2$</p>
<p>①</p>  <p>2×4</p> <p>$4 \times 2 \div 2 \times 2$</p>	<p>② 図の中に、底辺と高さも書き込みなさい。</p>  <p>1×2</p>	<p>③ 図の中に、底辺と高さも書き込みなさい。</p>  <p>$1 \times 2 \div 2$</p>

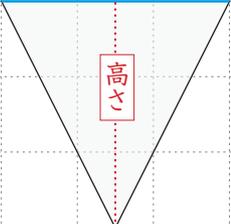
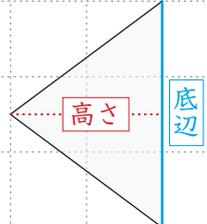
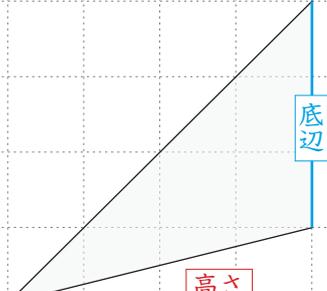
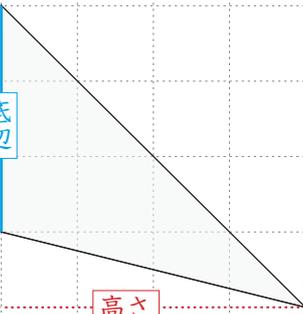
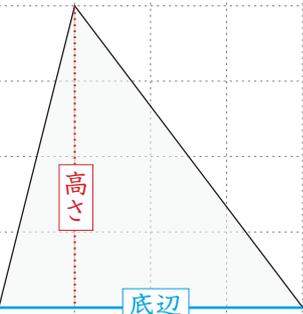
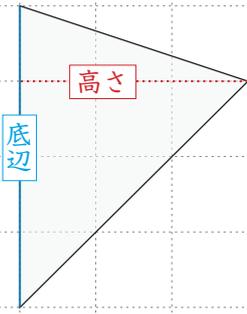
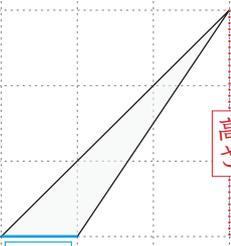
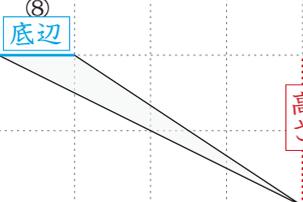
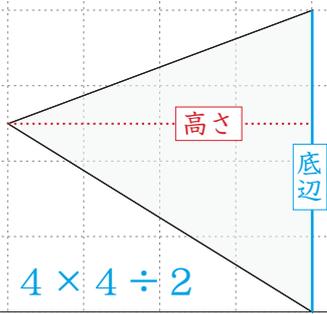
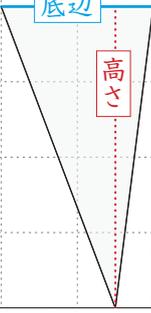
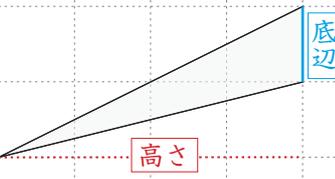
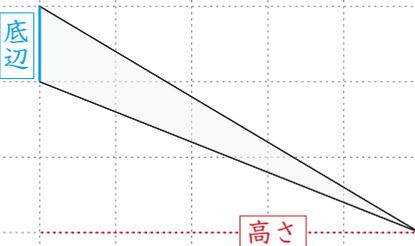
次の図形は、1辺が1cmの正方形がいくつでできていますか。

網かけした部分の面積を求める式を書きなさい。※1辺が1cmの正方形の面積を1平方センチメートルと言い、 1cm^2 と表します。

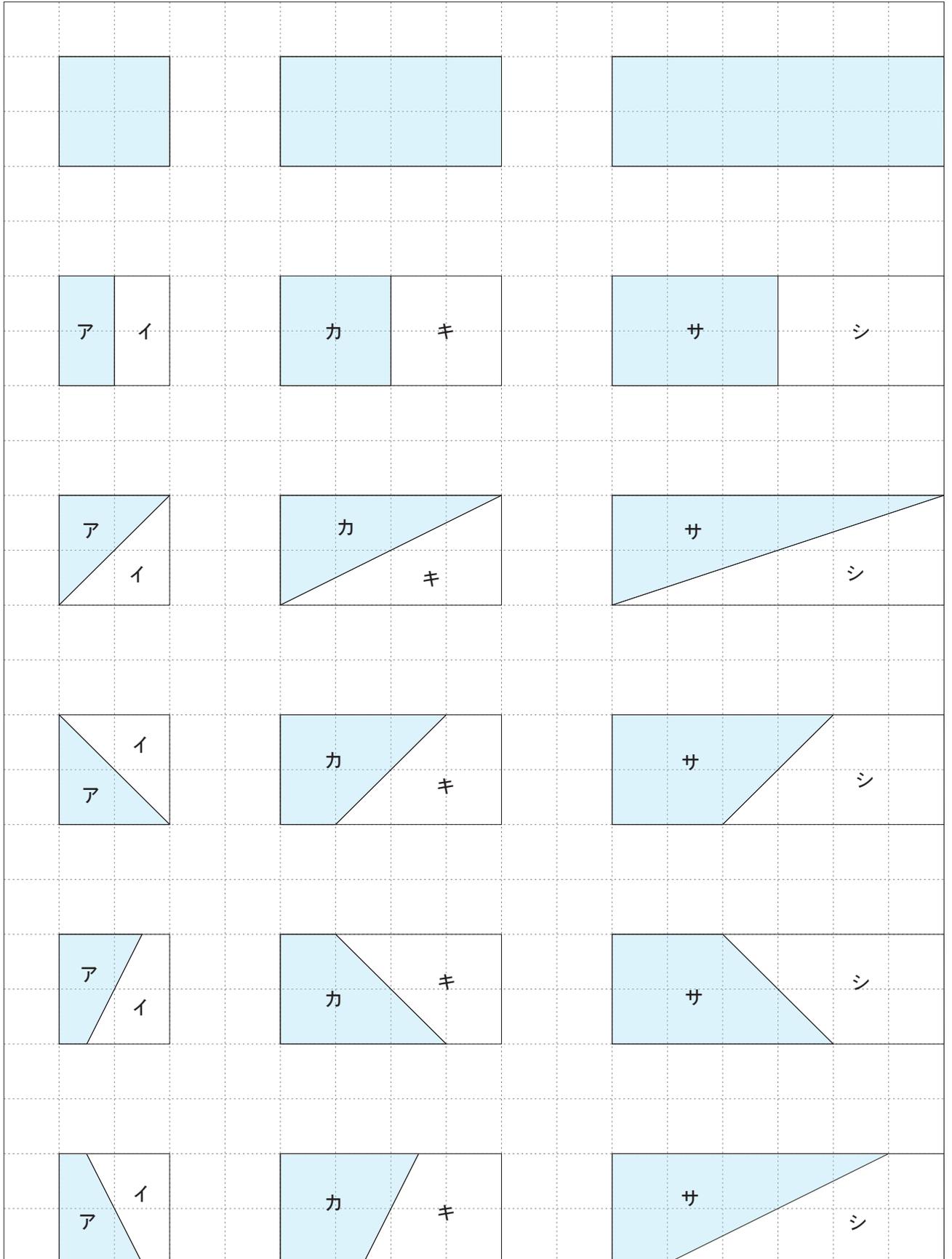
<p>①</p>  <p>4×4</p>	<p>② 図の中に、底辺と高さも書き込みなさい。</p>  <p>$4 \times 4 \div 2$</p>	<p>③ 図の中に、底辺と高さも書き込みなさい。</p>  <p>$4 \times 4 \div 2$</p>
<p>①</p>  <p>4×2 or 2×4</p>	<p>② 図の中に、底辺と高さも書き込みなさい。</p>  <p>$2 \times 4 \div 2$</p>	<p>③ 図の中に、底辺と高さも書き込みなさい。</p>  <p>$2 \times 4 \div 2$</p>
<p>①</p> <p>$4 \times 2 \div 2 \times 2$</p>  <p>$2 \times 4 \div 2 \times 2$</p>	<p>② 図の中に、底辺と高さも書き込みなさい。</p>  <p>1×4</p>	<p>③ 図の中に、底辺と高さも書き込みなさい。</p>  <p>$1 \times 4 \div 2$</p>
<p>①</p> <p>$5 \times 2 \div 2 \times 2$</p>  <p>$2 \times 5 \div 2 \times 2$</p>	<p>② 図の中に、底辺と高さも書き込みなさい。</p>  <p>1×5</p>	<p>③ 図の中に、底辺と高さも書き込みなさい。</p>  <p>$1 \times 5 \div 2$</p>

次の図形は、1辺が1cmの正方形がいくつでできていますか。

網かけした部分の面積を求める式を書きなさい。※1辺が1cmの正方形の面積を1平方センチメートルと言い、 1cm^2 と表します。

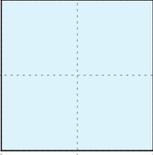
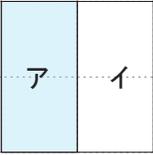
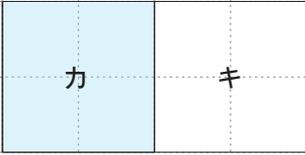
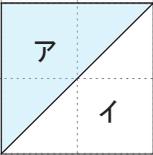
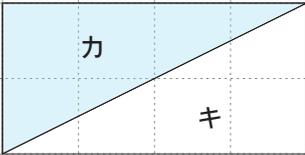
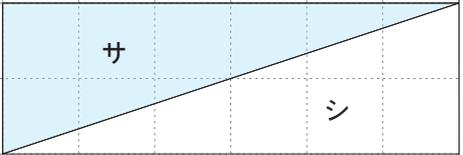
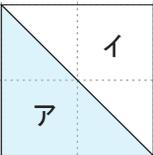
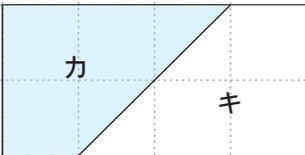
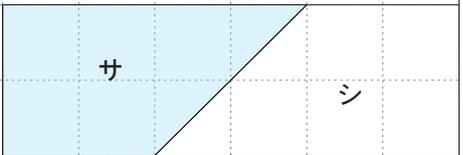
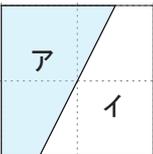
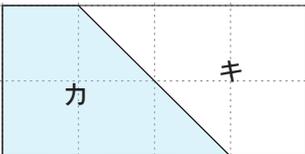
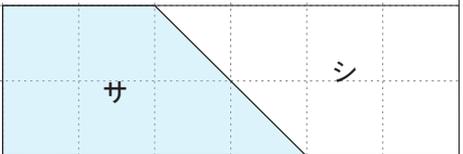
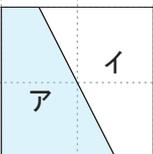
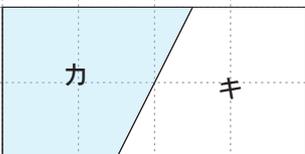
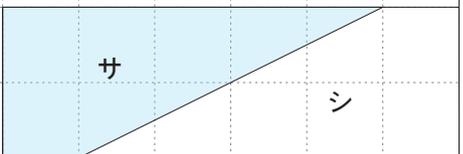
<p>①</p>  <p>$3 \times 3 \div 2$</p>	<p>②</p>  <p>$3 \times 2 \div 2$</p>	<p>③</p>  <p>$3 \times 4 \div 2$</p>
<p>④</p>  <p>$3 \times 4 \div 2$</p>	<p>⑤</p>  <p>$4 \times 4 \div 2$</p>	<p>⑥</p>  <p>$4 \times 3 \div 2$</p>
<p>⑦</p>  <p>$1 \times 3 \div 2$</p>	<p>⑧</p>  <p>$1 \times 2 \div 2$</p>	<p>⑨</p>  <p>$4 \times 4 \div 2$</p>
<p>⑩</p>  <p>$2 \times 4 \div 2$</p>	<p>⑪</p>  <p>$1 \times 4 \div 2$</p>	<p>⑫</p>  <p>$1 \times 5 \div 2$</p>

次の図形の ア、カ、サ を切り取り、
別紙 NO.12 の 同じプリントに
アをイに、カをキに、サをシに、重ねてごらん下さい。



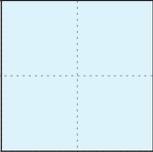
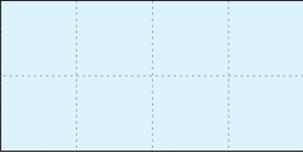
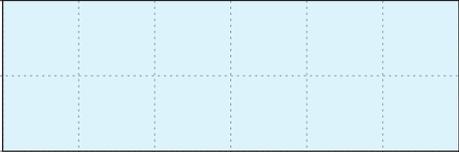
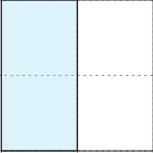
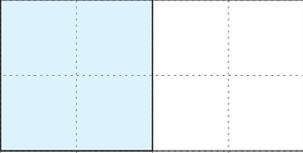
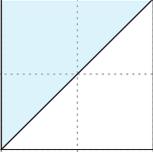
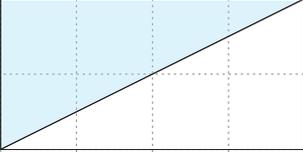
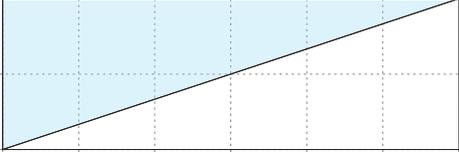
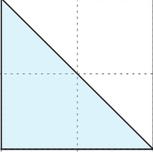
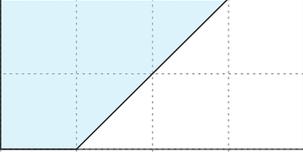
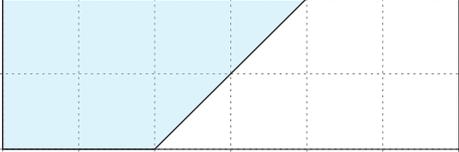
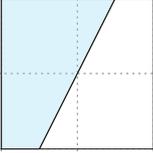
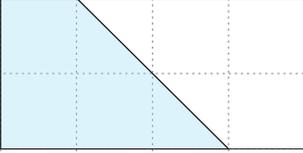
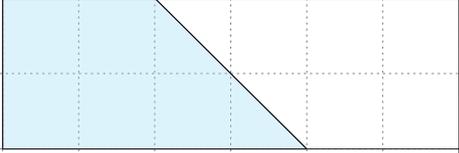
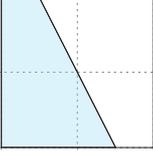
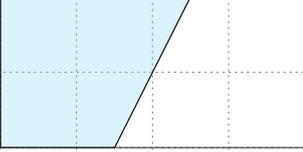
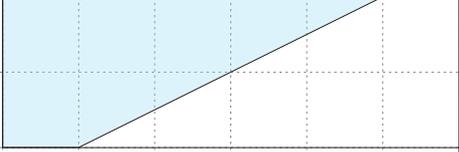
NO. 11で切り取った

アをイに、カをキに、サをシに、重ねなさい。

次の1cm方眼の
網かけをした図形の面積の求め方を示しなさい。

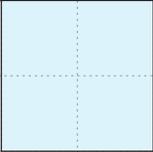
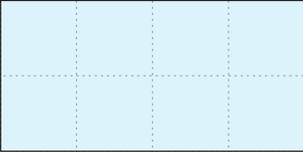
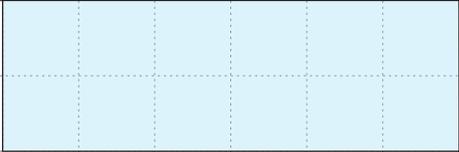
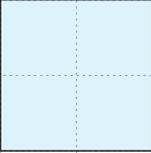
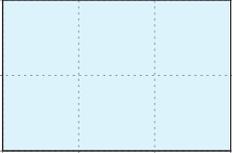
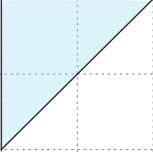
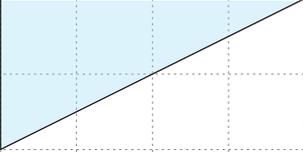
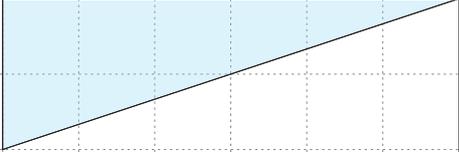
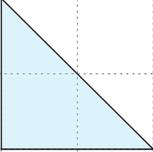
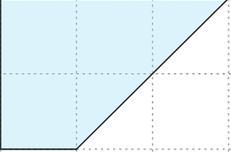
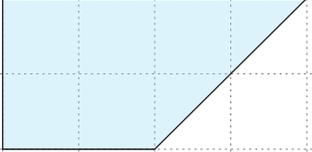
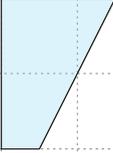
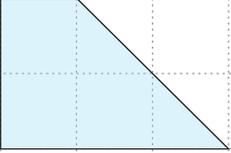
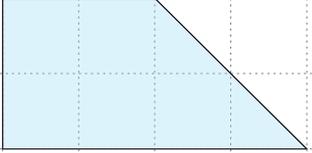
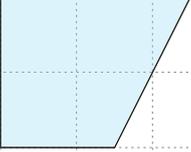
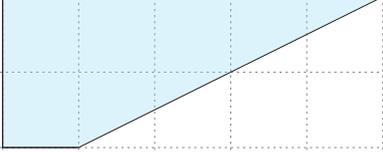
※ 長方形の面積を よこ×タテ の形で示しなさい。
(全体の半分という考え方で)

		
[例] 2×2	4×2	6×2
		
$2 \times 2 \div 2$	$4 \times 2 \div 2$	$6 \times 2 \div 2$
		
$2 \times 2 \div 2$	$4 \times 2 \div 2$	$6 \times 2 \div 2$
		
$2 \times 2 \div 2$	$4 \times 2 \div 2$	$6 \times 2 \div 2$
		
$2 \times 2 \div 2$	$4 \times 2 \div 2$	$6 \times 2 \div 2$
		
$2 \times 2 \div 2$	$4 \times 2 \div 2$	$6 \times 2 \div 2$

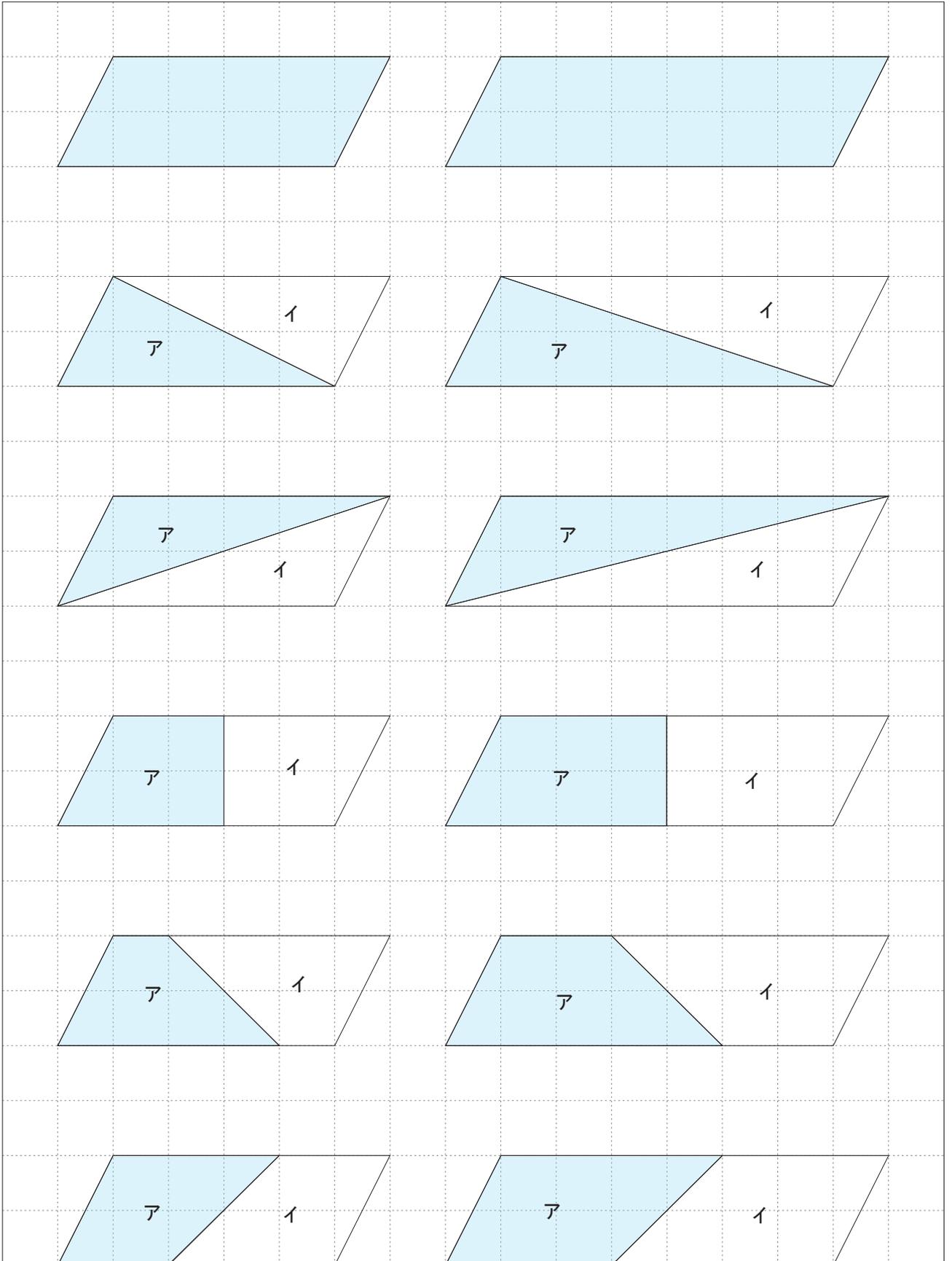
(学年) [名前]

次の1cm方眼の
網かけをした図形の面積を求めなさい。(cm²)

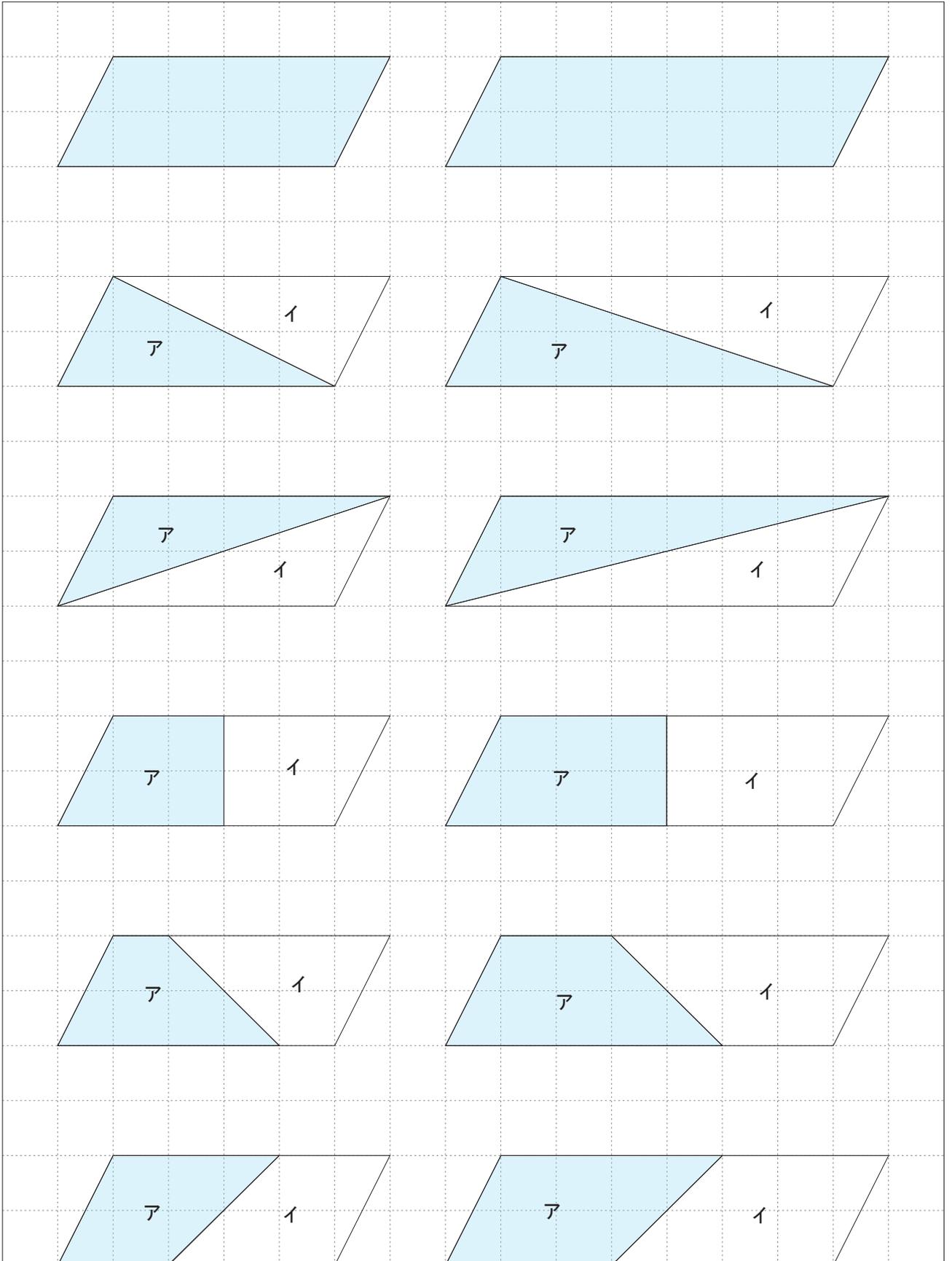
※ 前ページ A4-方眼-13 と同じ方法で求めなさい。

		
2×2	4×2	6×2
		
$2 \times 2 \div 2$	$4 \times 2 \div 2$	$6 \times 2 \div 2$
		
$2 \times 2 \div 2$	$4 \times 2 \div 2$	$6 \times 2 \div 2$
		
$2 \times 2 \div 2$	$4 \times 2 \div 2$	$6 \times 2 \div 2$
		
$2 \times 2 \div 2$	$4 \times 2 \div 2$	$6 \times 2 \div 2$
		
$2 \times 2 \div 2$	$4 \times 2 \div 2$	$6 \times 2 \div 2$

次の図形を切り取り、
別紙 NO.16 の 同じプリントに
アをイに、重ねてごらん下さい。

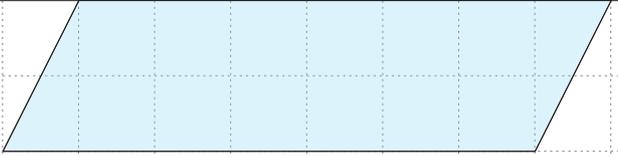
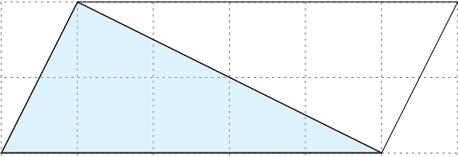
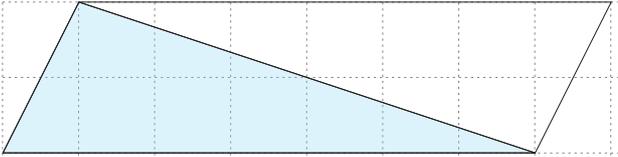
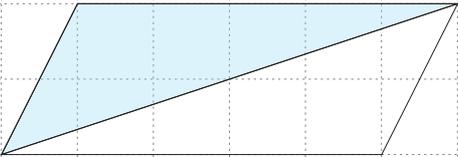
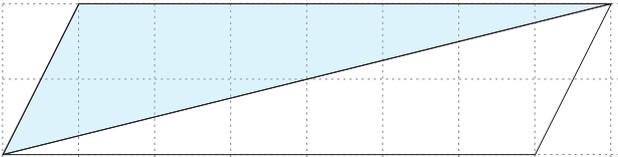
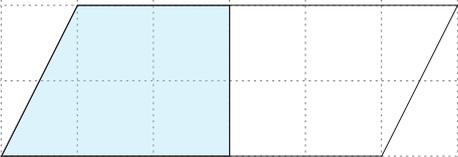
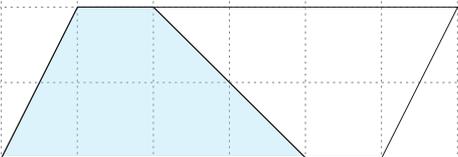
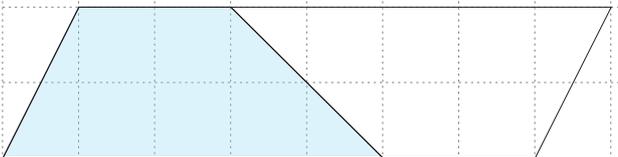
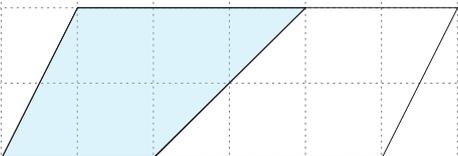
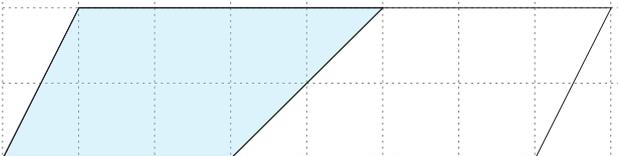


NO. 15で切り取った
アをイに、重ねなさい。



次の1cm方眼の
網かけをした図形の面積の求め方を示しなさい。

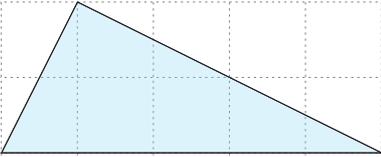
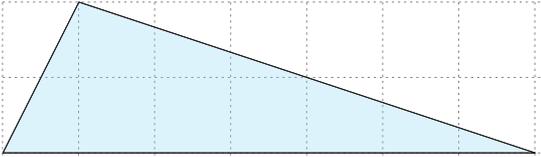
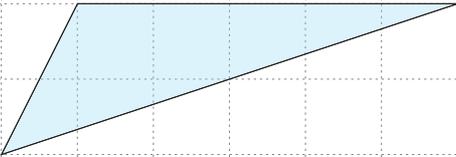
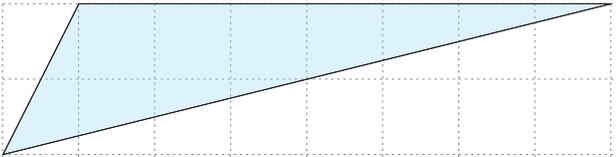
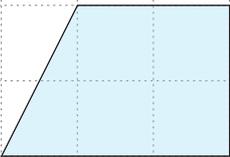
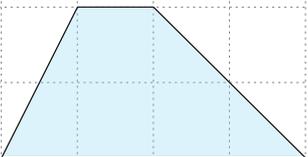
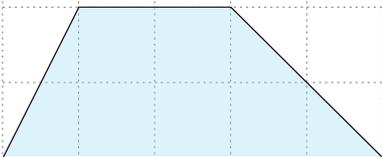
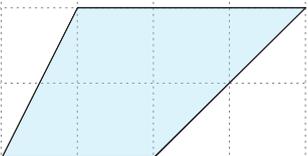
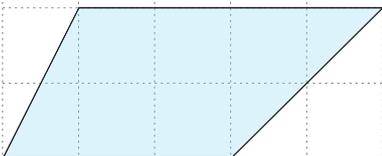
※ 三角形も台形も、
2つ合わせて平行四辺形の半分という順序で求めなさい。

	
[例] 5×2	7×2
	
$5 \times 2 \div 2$	$7 \times 2 \div 2$
	
$5 \times 2 \div 2$	$7 \times 2 \div 2$
	
$(2 + 3) \times 2 \div 2$	$(3 + 4) \times 2 \div 2$
	
$(1 + 4) \times 2 \div 2$	$(2 + 5) \times 2 \div 2$
	
$(3 + 2) \times 2 \div 2$	$(4 + 3) \times 2 \div 2$

(学年) [名前]

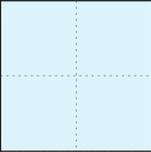
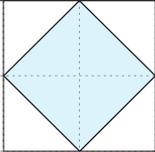
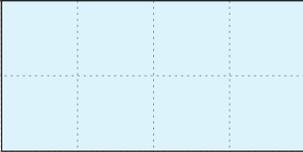
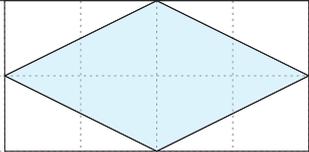
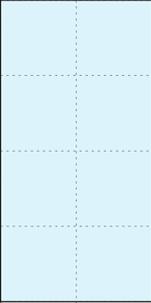
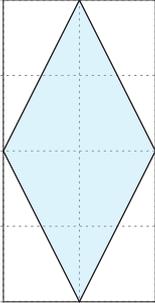
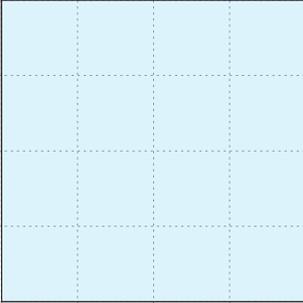
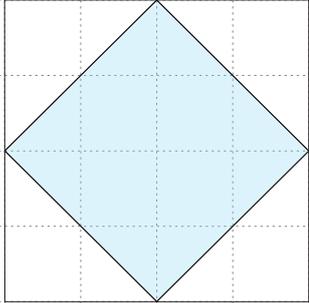
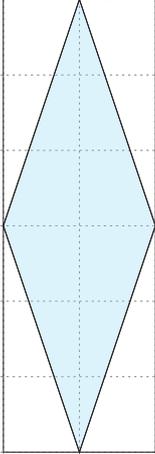
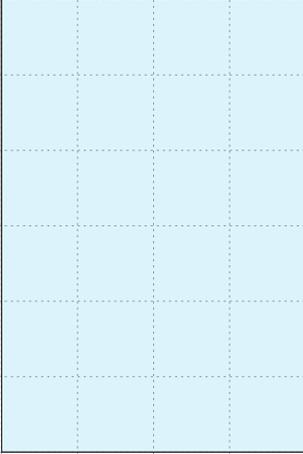
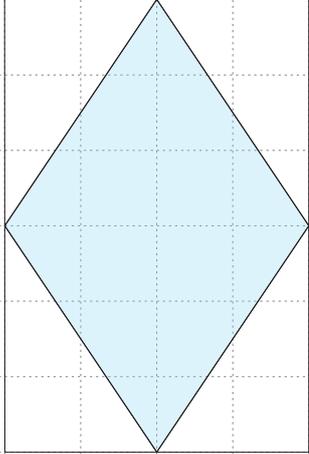
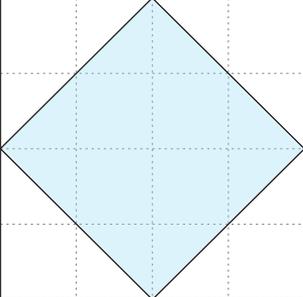
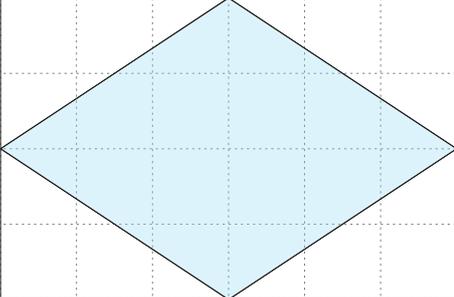
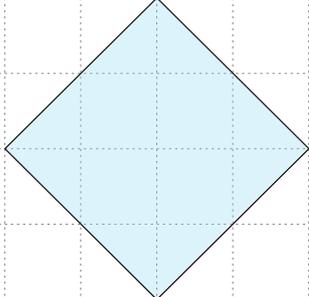
次の1cm方眼の
網かけをした図形の面積を求めなさい。(cm²)

※ 前ページ A4-方眼-17 と同じ方法で求めなさい。

	
$5 \times 2 = 10$	$7 \times 2 = 14$
	
$5 \times 2 \div 2 = 5$	$7 \times 2 \div 2 = 7$
	
$5 \times 2 \div 2 = 5$	$7 \times 2 \div 2 = 7$
	
$(2 + 3) \times 2 \div 2 = 5$	$(3 + 4) \times 2 \div 2 = 7$
	
$(1 + 4) \times 2 \div 2 = 5$	$(2 + 5) \times 2 \div 2 = 7$
	
$(3 + 2) \times 2 \div 2 = 5$	$(4 + 3) \times 2 \div 2 = 7$

次の1cm方眼の
網かけをした図形の面積を求めなさい。(cm²)

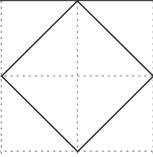
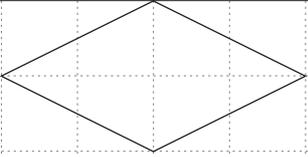
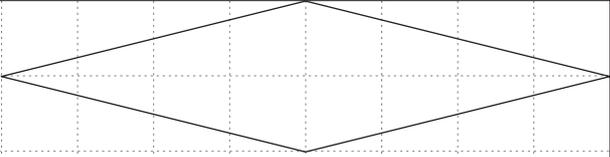
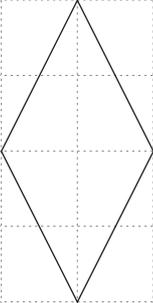
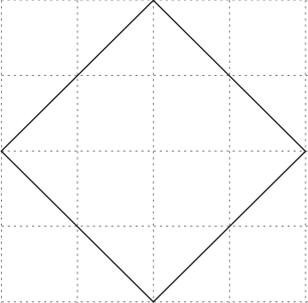
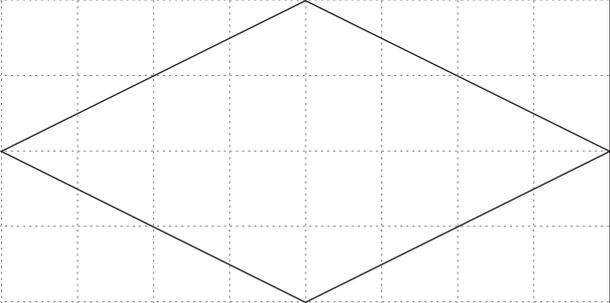
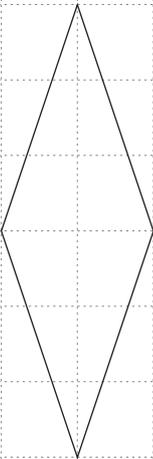
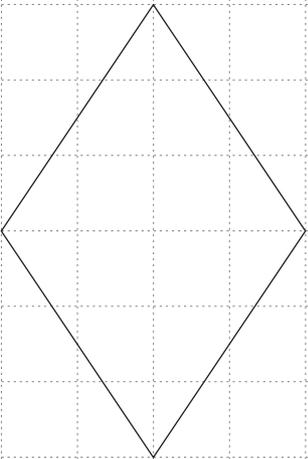
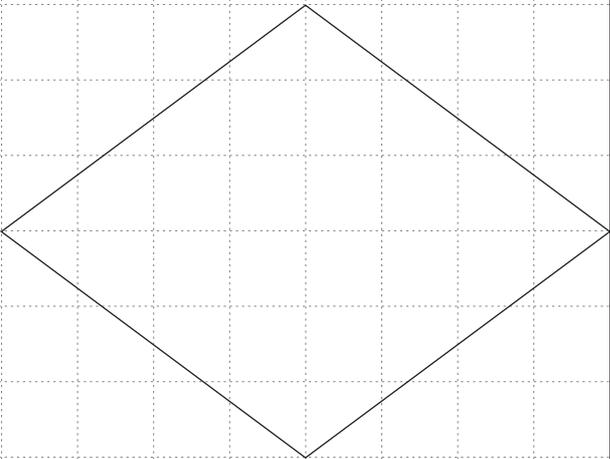
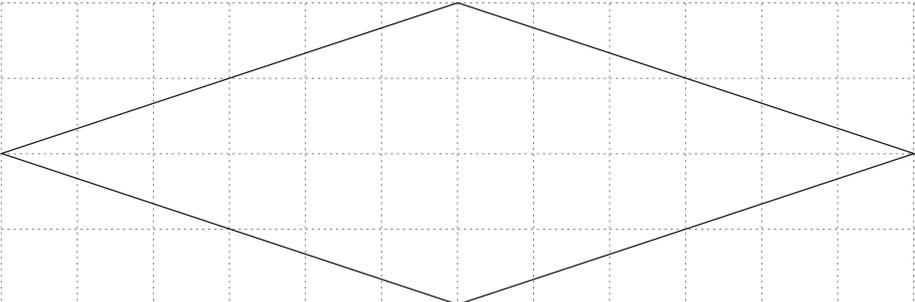
※ よこ×タテの順序で
正方形又は、長方形の面積を求め、
その半分という形式で求めなさい。

			
$2 \times 2 = 4$	$2 \times 2 \div 2 = 2$	$4 \times 2 = 8$	$4 \times 2 \div 2 = 4$
			
$2 \times 4 = 8$	$2 \times 4 \div 2 = 4$	$4 \times 4 = 16$	$4 \times 4 \div 2 = 8$
			
$2 \times 6 = 12$	$2 \times 6 \div 2 = 6$	$4 \times 6 = 24$	$4 \times 6 \div 2 = 12$
			
$4 \times 4 \div 2 = 8$	$6 \times 4 \div 2 = 12$	$4 \times 4 \div 2 = 8$	

次の1cm方眼の

※ 前ページ A4-方眼-19 と同じ方法で求めなさい。

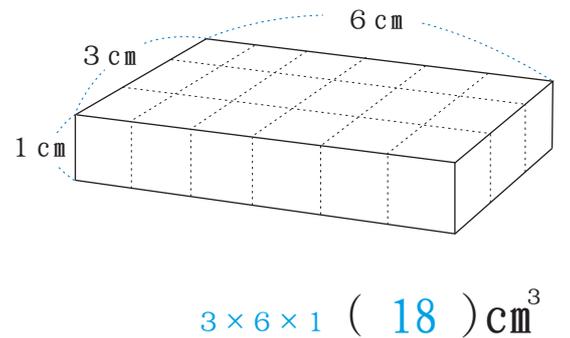
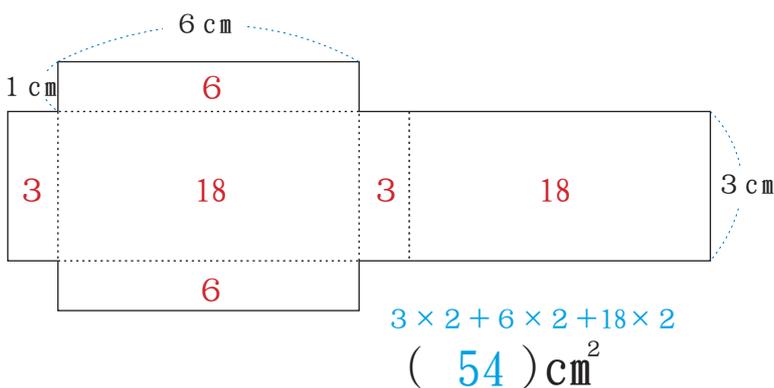
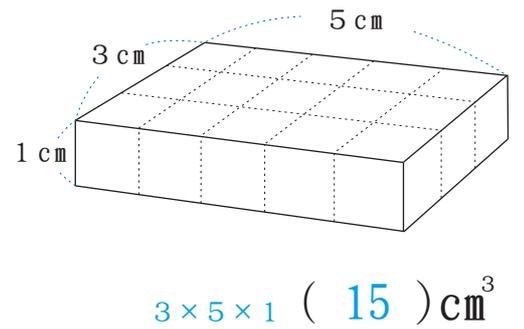
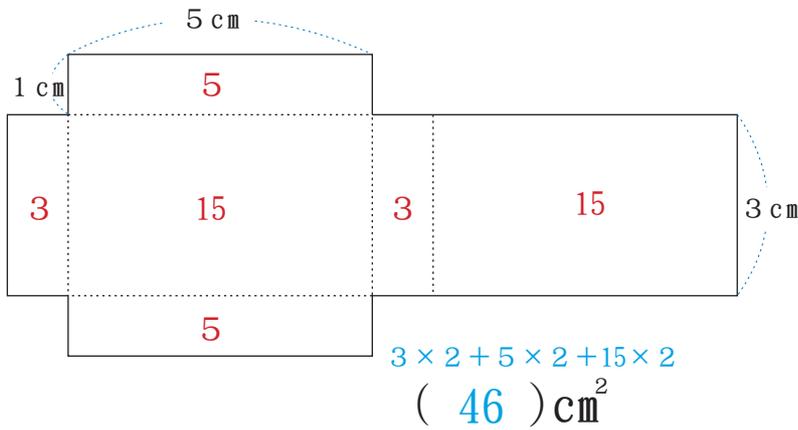
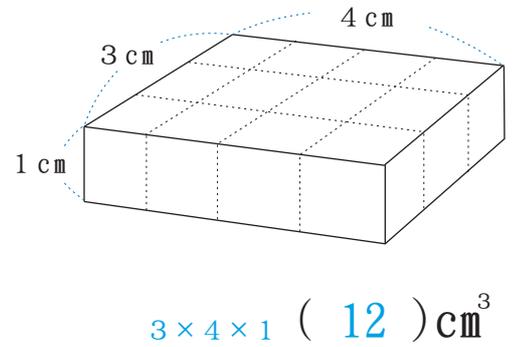
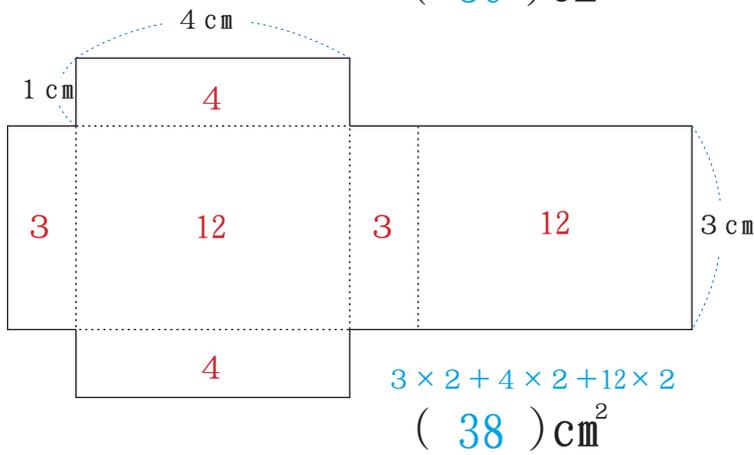
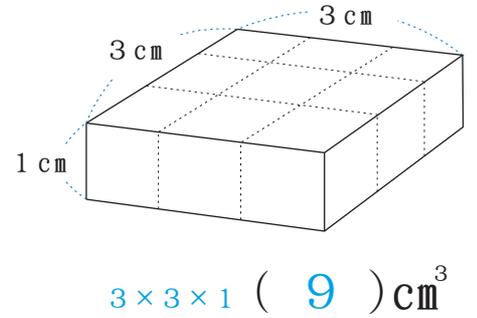
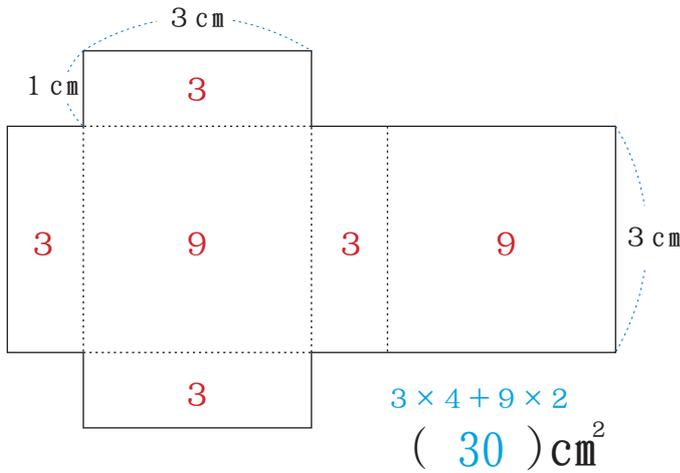
ひし形の面積を求めなさい。(cm²)

		
$2 \times 2 \div 2 = 2$	$4 \times 2 \div 2 = 4$	$8 \times 2 \div 2 = 8$
		
$2 \times 4 \div 2 = 4$	$4 \times 4 \div 2 = 8$	$8 \times 4 \div 2 = 16$
		
$2 \times 6 \div 2 = 6$	$4 \times 6 \div 2 = 12$	$8 \times 6 \div 2 = 24$
		
$12 \times 4 \div 2 = 24$		

次の四角柱(直方体)の展開図の面積を求めなさい。

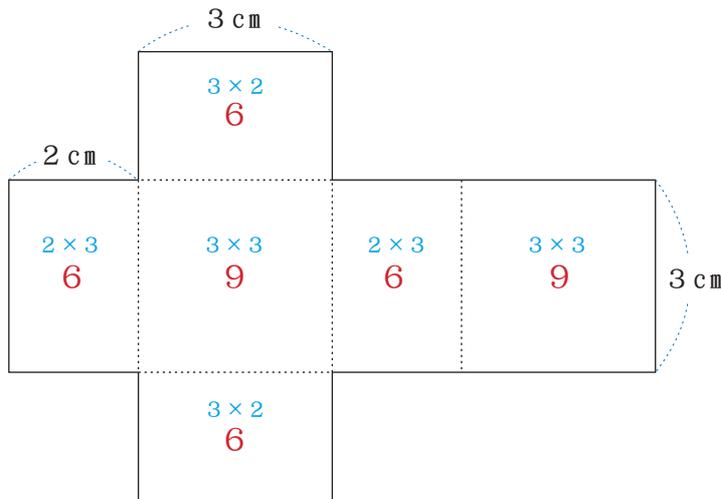
たいせき
体積を求めなさい。

※1辺が1cmの立方体の体積を
1cm³(立方センチメートル)と言います。

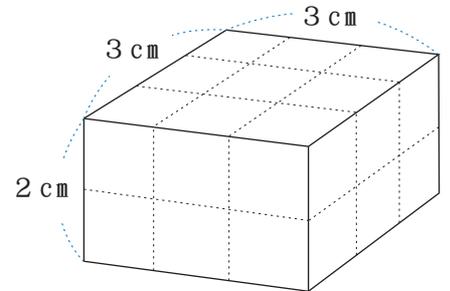


次の四角柱(直方体)の展開図の **面積** を求めなさい。

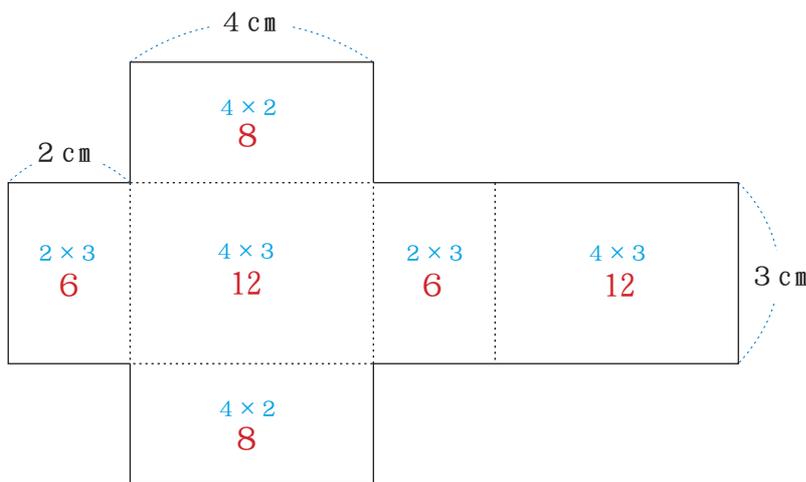
たいせき
体積 を求めなさい。



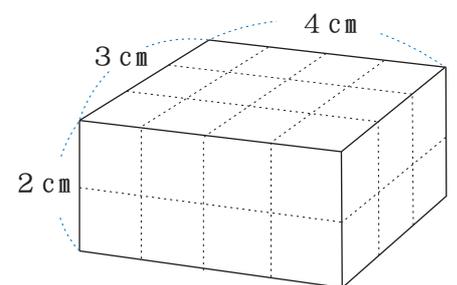
$$6 \times 4 + 9 \times 2 = (42) \text{ cm}^2$$



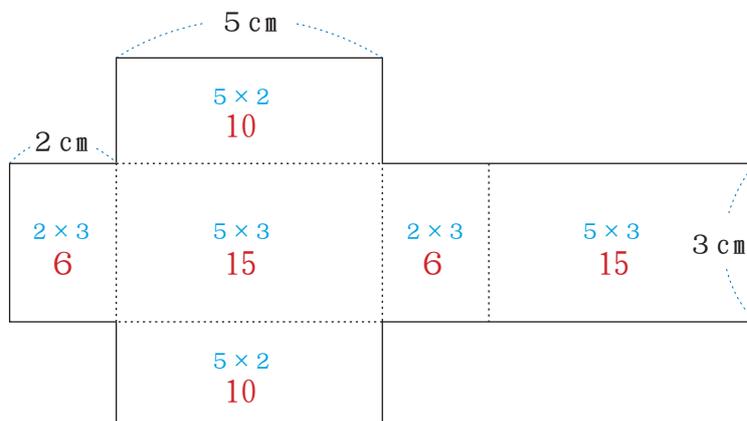
$$3 \times 3 \times 2 = (18) \text{ cm}^3$$



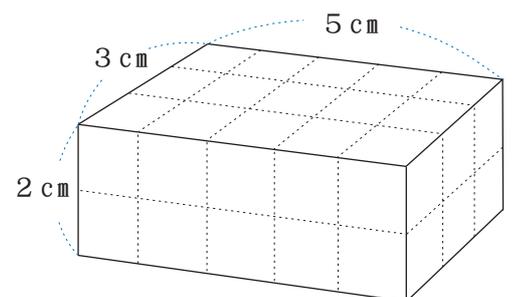
$$6 \times 2 + 8 \times 2 + 12 \times 2 = (52) \text{ cm}^2$$



$$3 \times 4 \times 2 = (24) \text{ cm}^3$$



$$6 \times 2 + 10 \times 2 + 15 \times 2 = (62) \text{ cm}^2$$

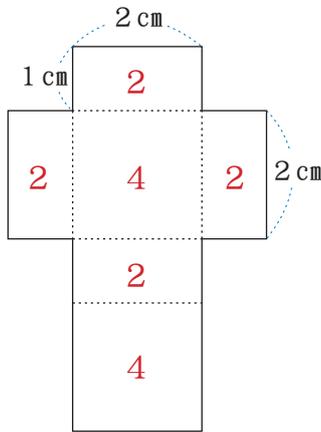


$$3 \times 5 \times 2 = (30) \text{ cm}^3$$

次の四角柱(直方体)の展開図の **面積** を求めなさい。

展開図を組み立てた四角柱の **体積** を求めなさい。

※1辺が1cmの立方体の体積を
1cm³(立方センチメートル)と言います。

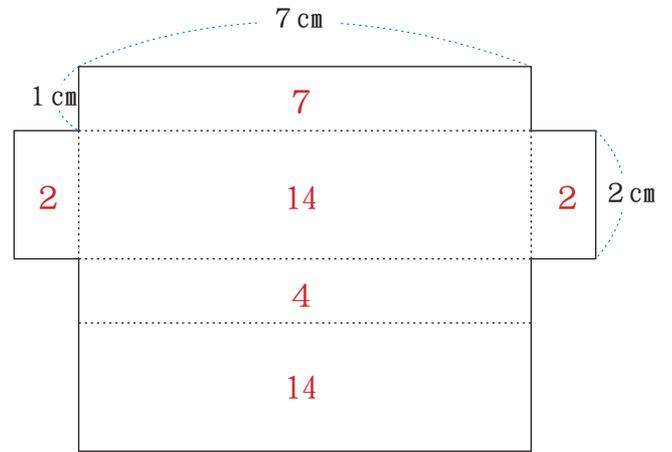


$$2 \times 4 + 4 \times 2$$

$$(16) \text{cm}^2$$

$$2 \times 2 \times 1$$

$$(4) \text{cm}^3$$

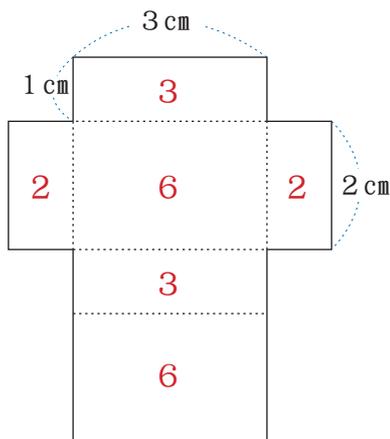


$$2 \times 2 + 7 \times 2 + 14 \times 2$$

$$(46) \text{cm}^2$$

$$2 \times 7 \times 1$$

$$(14) \text{cm}^3$$

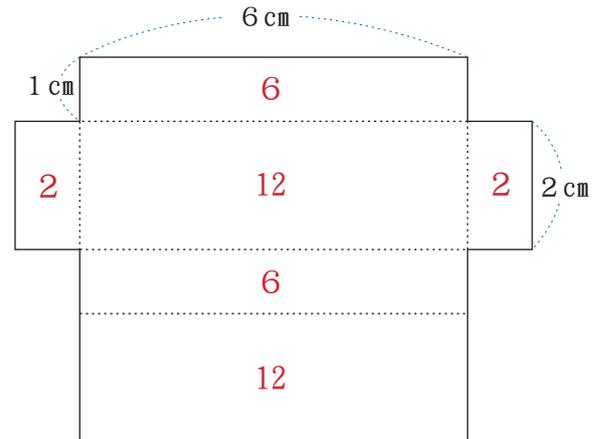


$$2 \times 2 + 3 \times 2 + 6 \times 2$$

$$(22) \text{cm}^2$$

$$2 \times 3 \times 1$$

$$(6) \text{cm}^3$$

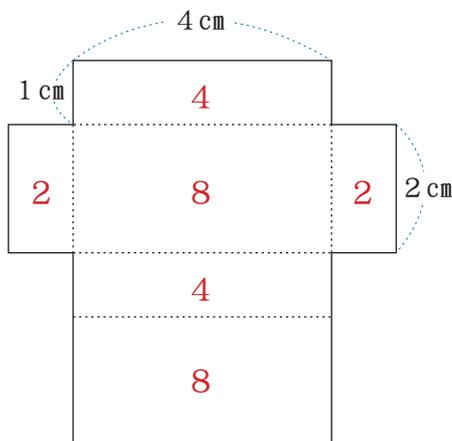


$$2 \times 2 + 6 \times 2 + 12 \times 2$$

$$(40) \text{cm}^2$$

$$2 \times 6 \times 1$$

$$(12) \text{cm}^3$$

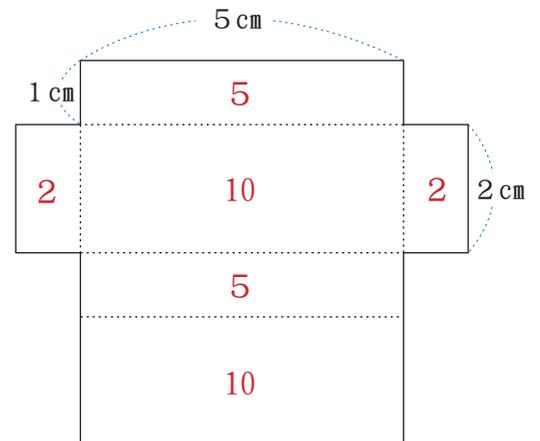


$$2 \times 2 + 4 \times 2 + 8 \times 2$$

$$(28) \text{cm}^2$$

$$2 \times 4 \times 1$$

$$(8) \text{cm}^3$$



$$2 \times 2 + 5 \times 2 + 10 \times 2$$

$$(34) \text{cm}^2$$

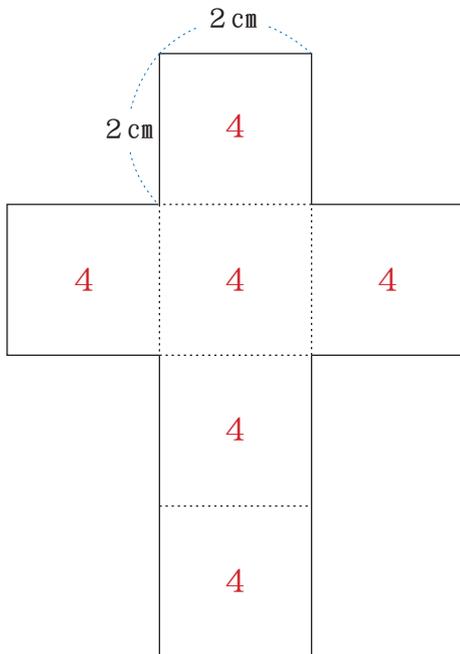
$$2 \times 5 \times 1$$

$$(10) \text{cm}^3$$

次の四角柱(直方体)の展開図の **面積** を求めなさい。

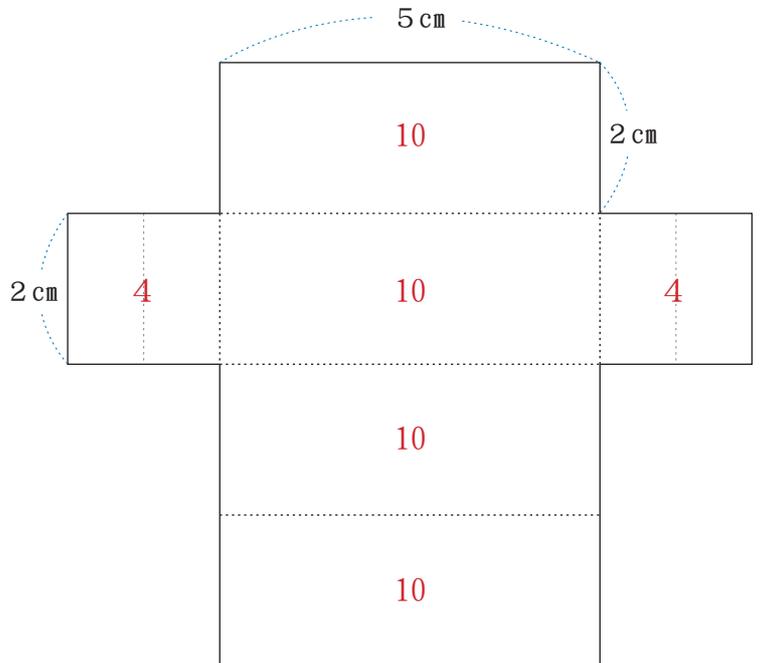
展開図を組み立てた四角柱の **体積** を求めなさい。

※1辺が1cmの立方体の体積を 1cm^3 (立方センチメートル) と言います。



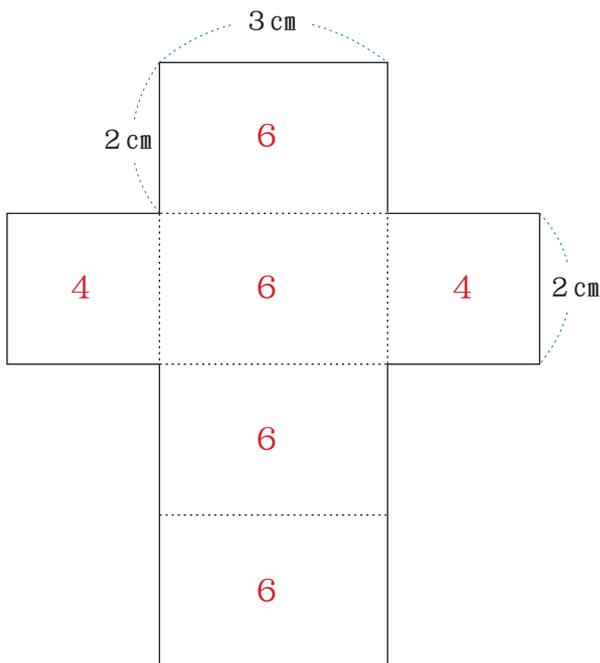
4×6
(24) cm^2

$2 \times 2 \times 2$
(8) cm^3



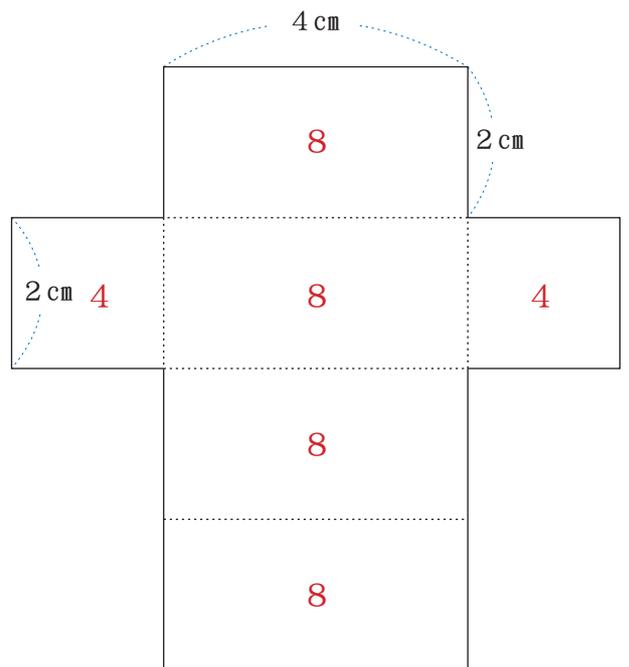
$4 \times 2 + 10 \times 4$
(48) cm^2

$5 \times 2 \times 2$
(20) cm^3



$4 \times 2 + 6 \times 4$
(32) cm^2

$3 \times 2 \times 2$
(12) cm^3



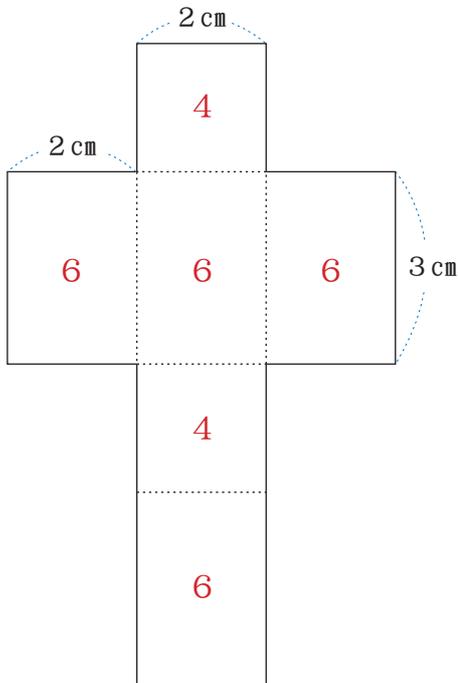
$4 \times 2 + 8 \times 4$
(40) cm^2

$4 \times 2 \times 2$
(16) cm^3

次の四角柱(直方体)の展開図の **面積** を求めなさい。

展開図を組み立てた四角柱の **体積** を求めなさい。

※1辺が1cmの立方体の体積を 1cm^3 (立方センチメートル) と言います。

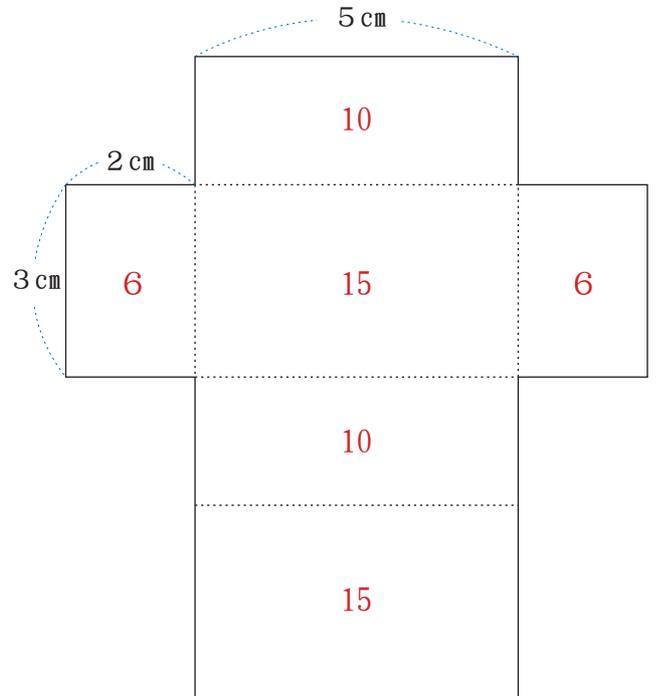


$$6 \times 4 + 4 \times 2$$

$$(32) \text{cm}^2$$

$$2 \times 3 \times 2$$

$$(12) \text{cm}^3$$

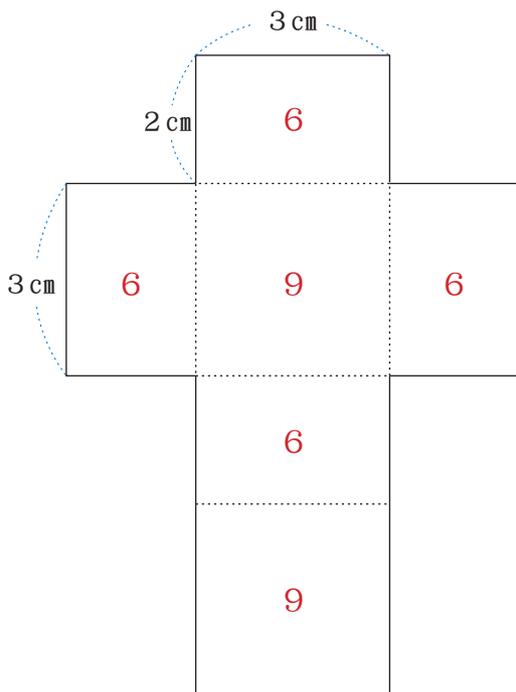


$$6 \times 2 + 10 \times 2 + 15 \times 2$$

$$(62) \text{cm}^2$$

$$3 \times 5 \times 2$$

$$(30) \text{cm}^3$$

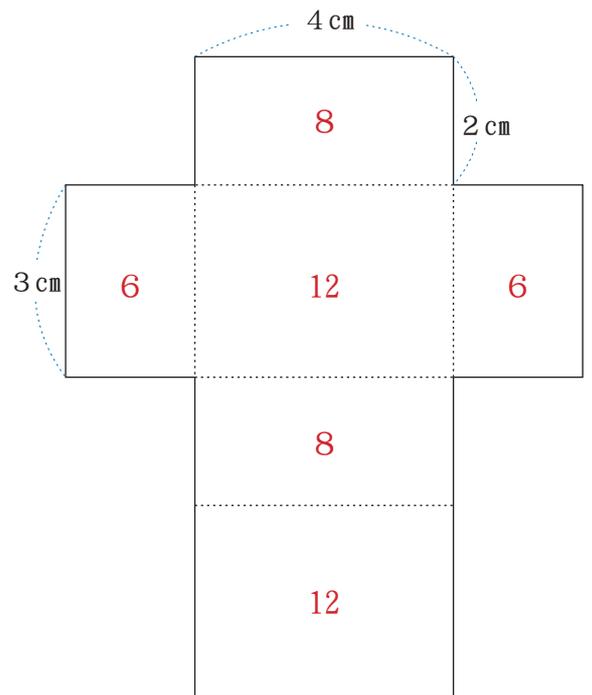


$$6 \times 4 + 9 \times 2$$

$$(42) \text{cm}^2$$

$$3 \times 3 \times 2$$

$$(18) \text{cm}^3$$



$$6 \times 2 + 8 \times 2 + 12 \times 2$$

$$(52) \text{cm}^2$$

$$3 \times 4 \times 2$$

$$(24) \text{cm}^3$$