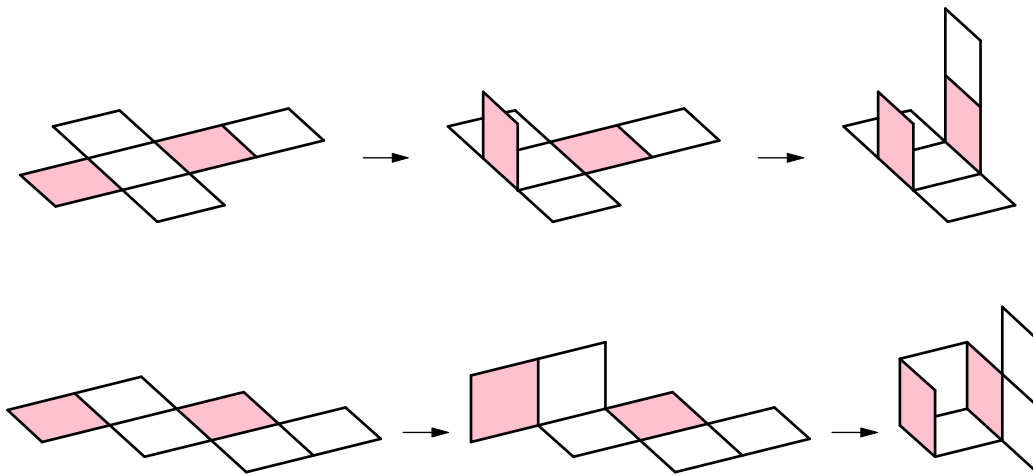
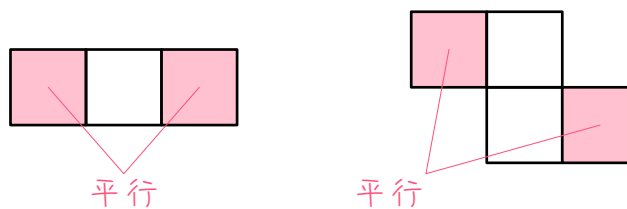


## 平行な面①

次の図は、立方体の展開図を途中まで組み立てた様子です。展開図の赤い面に注目すると、赤い面が立方体の向かい合った面にくることが分かります。よって、赤い面は平行になります。



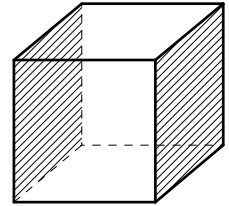
立方体の展開図において、下の図のような位置関係にある2つの面は、組み立てると平行になります。



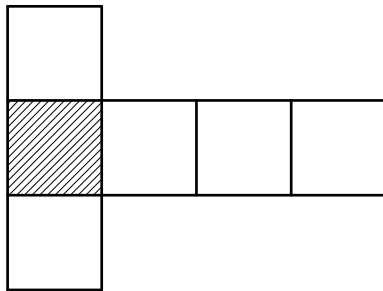
## ステップ1 平行な面

1

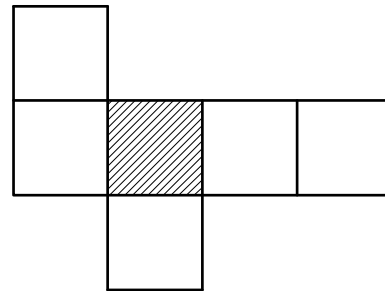
右の図のように、立方体の平行な面に色をぬりました。(1)~(10)の図は、この立方体の展開図です。それぞれの展開図において、色をぬった残りの1面に斜線を引きなさい。



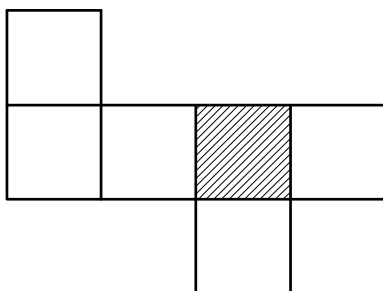
(1)



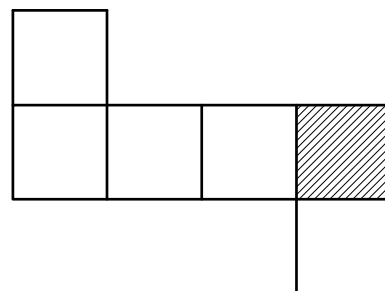
(2)



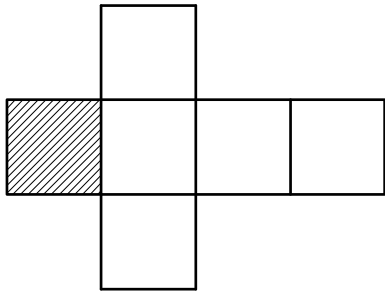
(3)



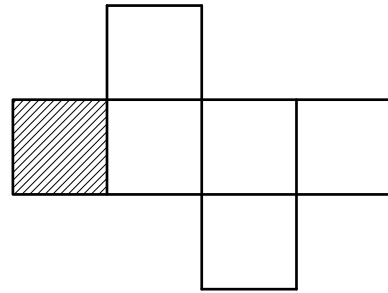
(4)



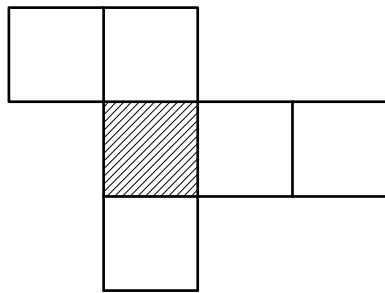
(5)



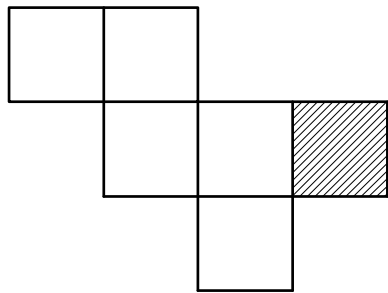
(6)



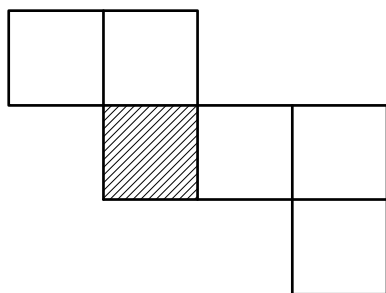
(7)



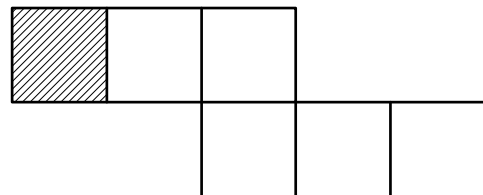
(8)



(9)

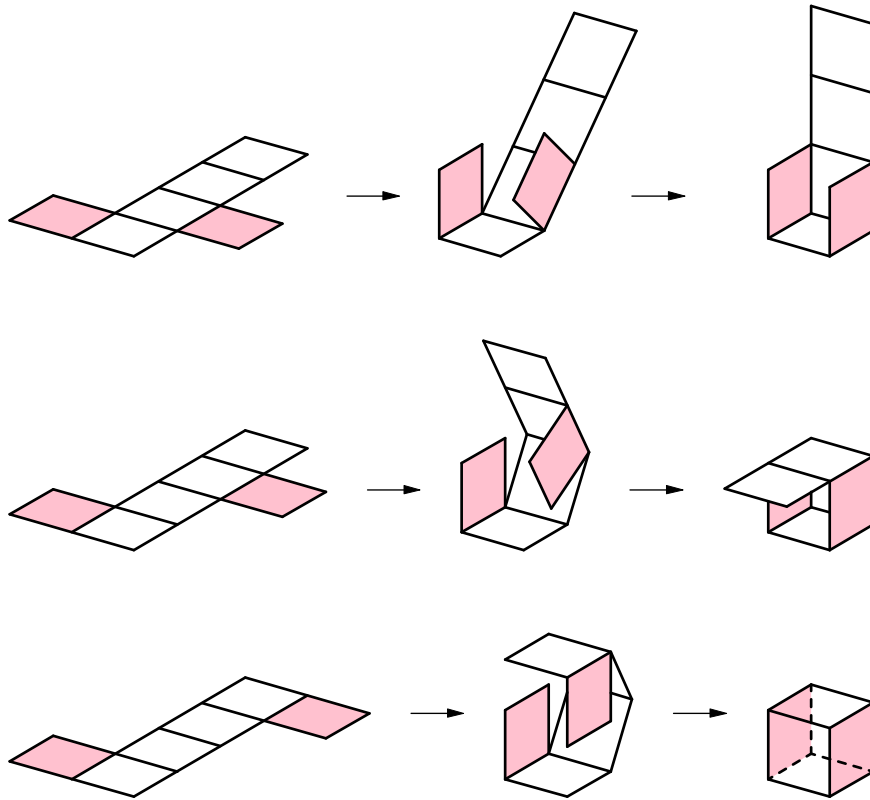


(10)

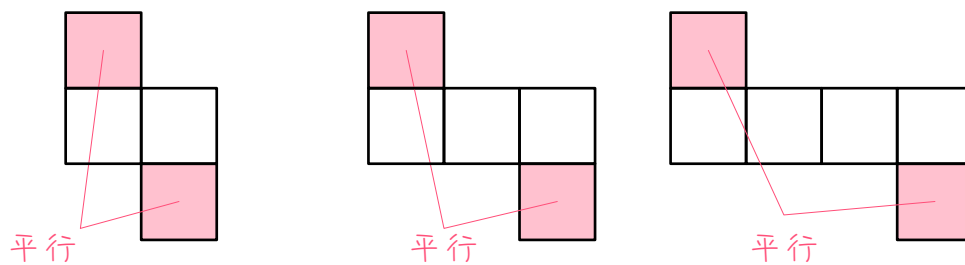


## 平行な面②

次の図は、立方体の展開図を途中まで組み立てた様子です。



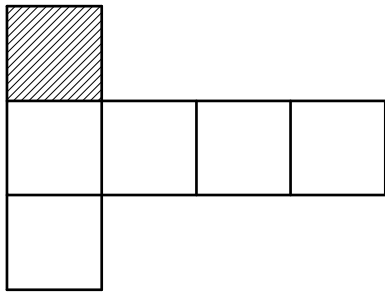
立方体の展開図において、下の図のような位置関係にある2つの面は、組み立てると平行になります。



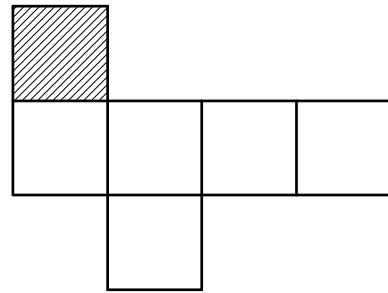
2

(1)~(10)は立方体の展開図です。それぞれの展開図を組み立てたときに、斜線の面と平行になる面に斜線を引きなさい。

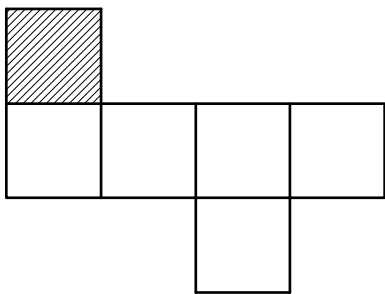
(1)



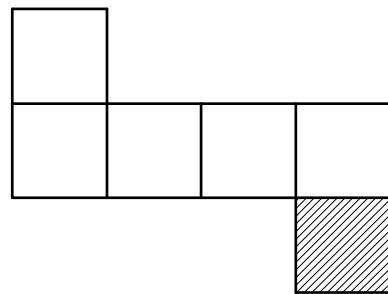
(2)



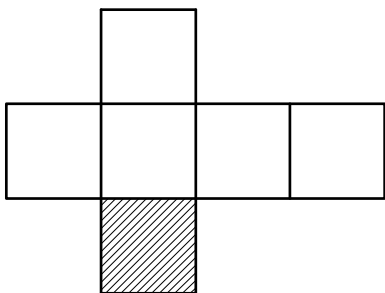
(3)



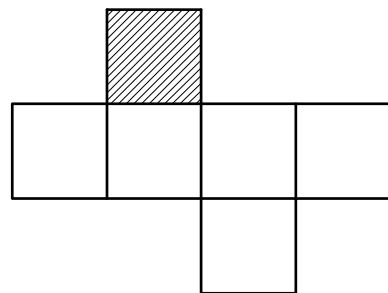
(4)



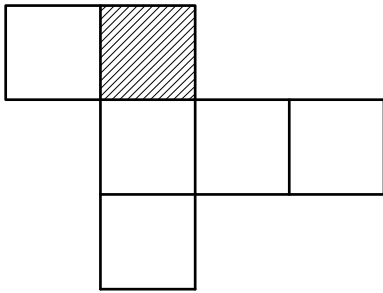
(5)



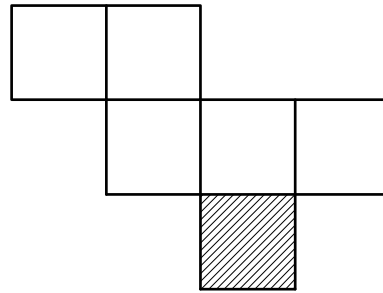
(6)



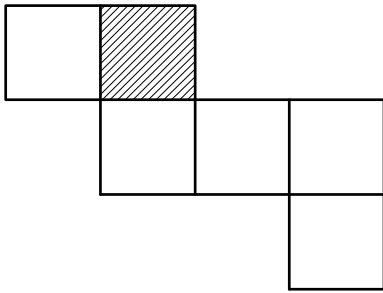
(7)



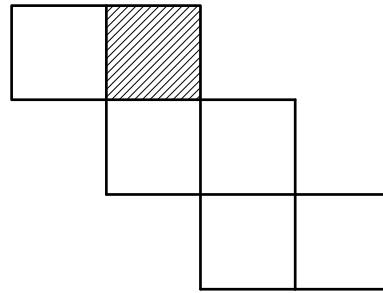
(8)



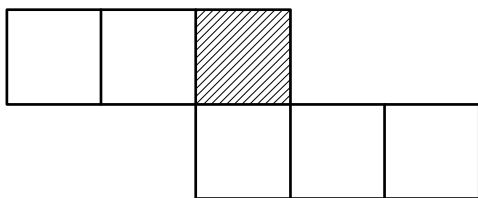
(9)



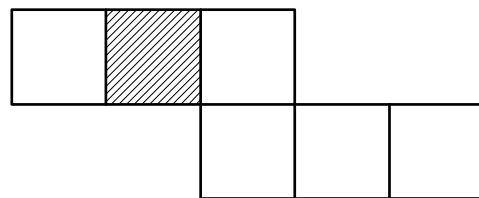
(10)



(11)



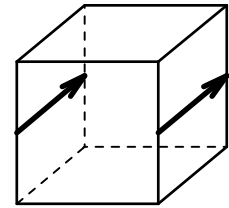
(12)



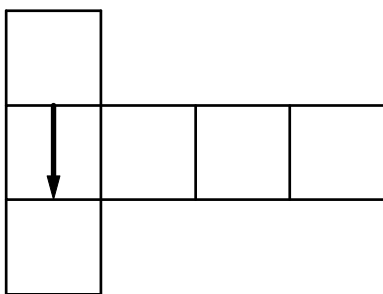
ステップ2 平行な面の矢印

3

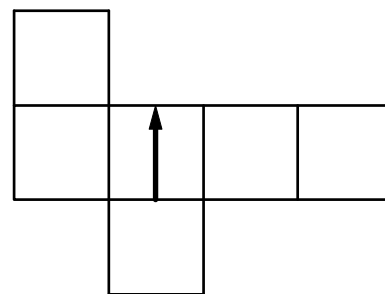
右の図のように、立方体の平行な面に矢印をかきました。(1)~(12)は、この立方体の展開図です。それぞれの展開図において、もう一つの矢印をかきなさい。



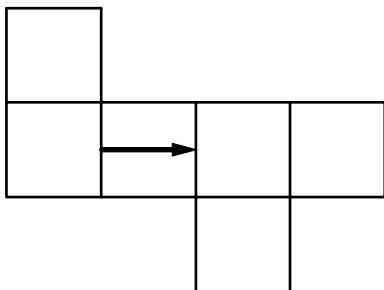
(1)



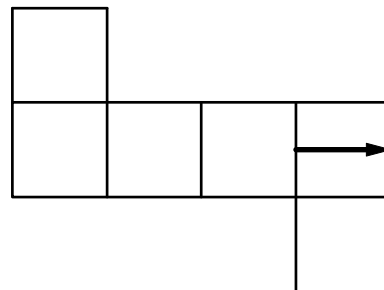
(2)



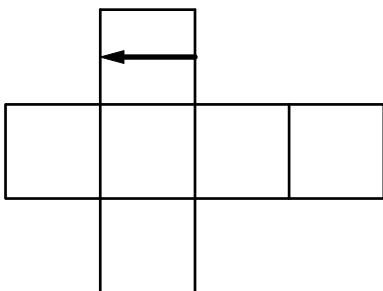
(3)



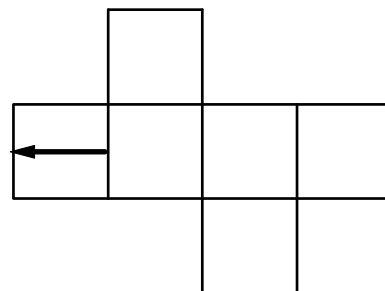
(4)



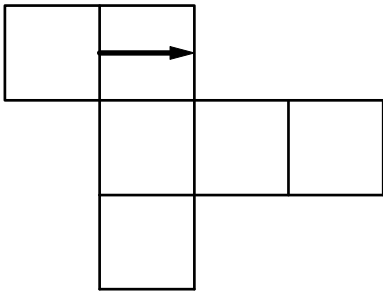
(5)



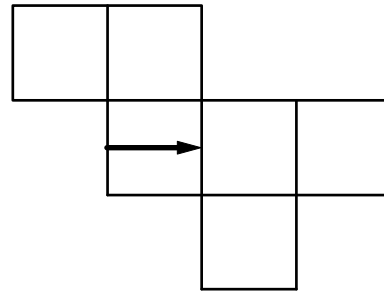
(6)



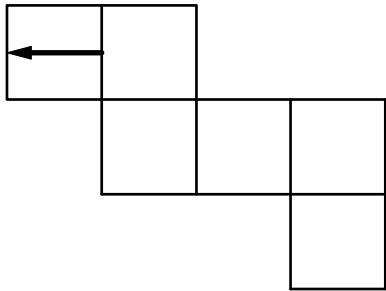
(7)



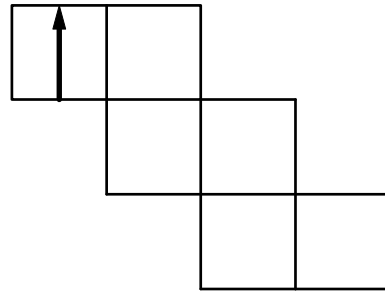
(8)



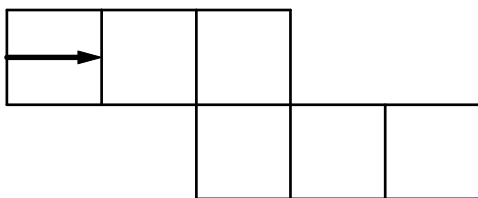
(9)



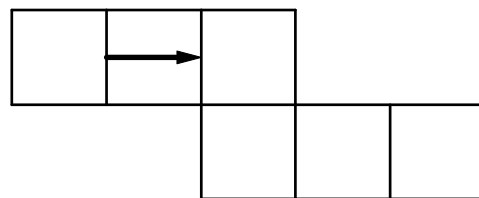
(10)



(11)



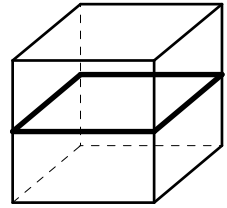
(12)



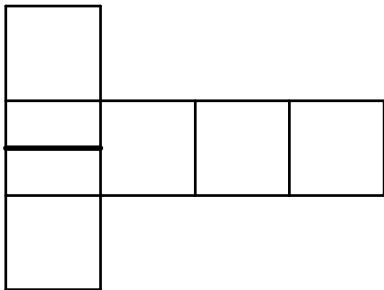


ステップ3 側面

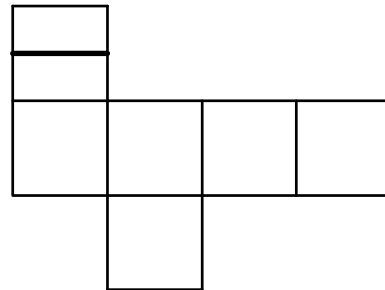
4 右の図のように、立方体の上下をのぞく4つの面(側面)に線を引きました。(1)~(12)は、この立方体の展開図です。それぞれの展開図において、残りの3つの面に線を引きなさい。



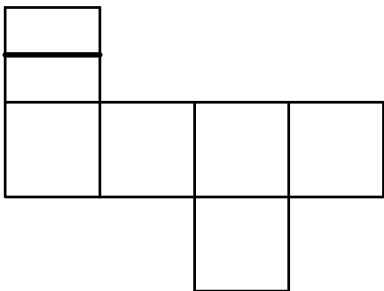
(1)



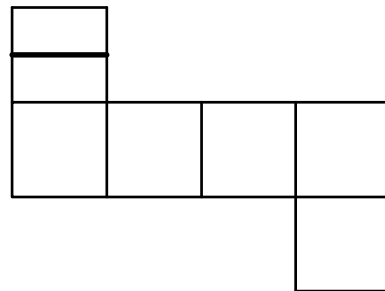
(2)



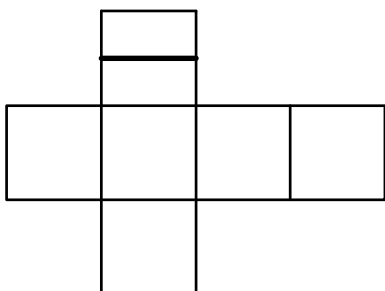
(3)



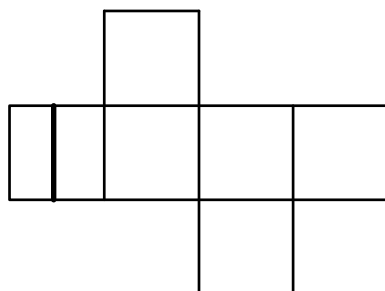
(4)



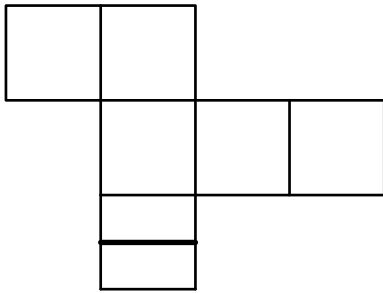
(5)



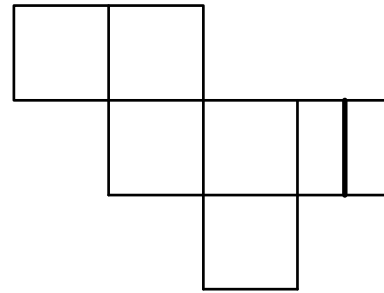
(6)



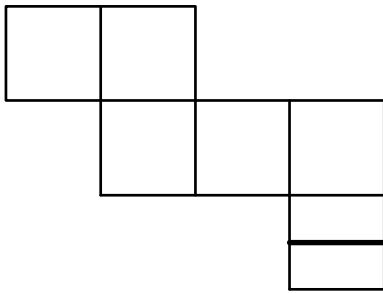
(7)



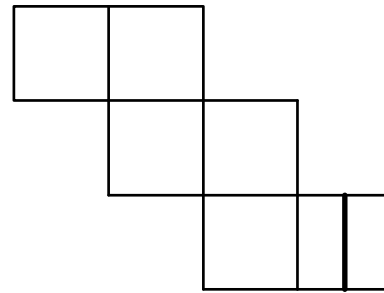
(8)



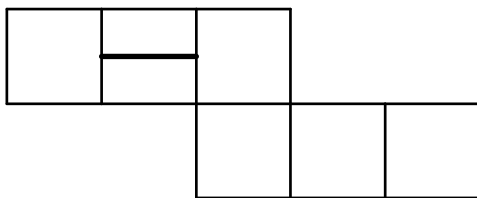
(9)



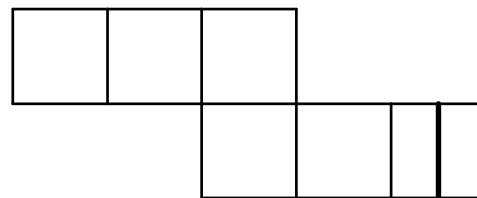
(10)



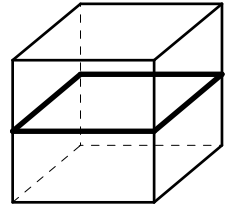
(11)



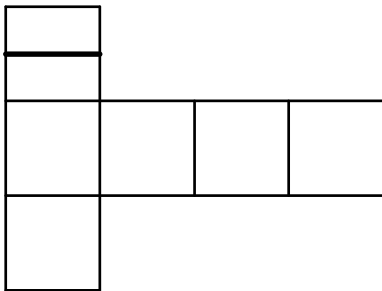
(12)



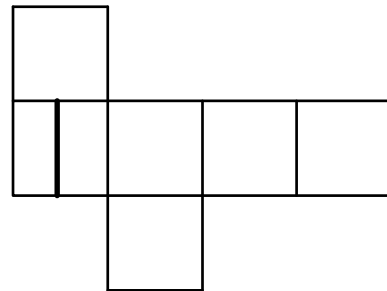
5 右の図のように、立方体の上下をのぞく4つの面(側面)に線を引きました。(1)~(12)は、この立方体の展開図です。それぞれの展開図において、残りの3つの面に線を引きなさい。



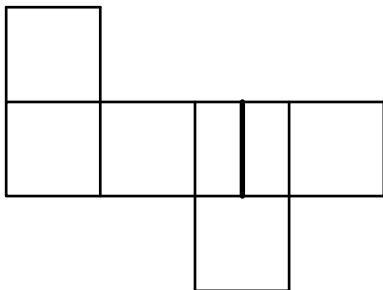
(1)



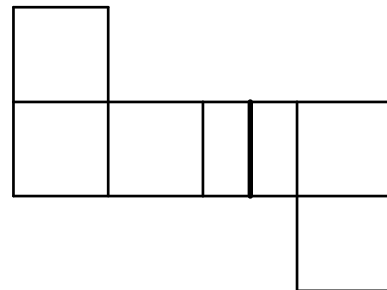
(2)



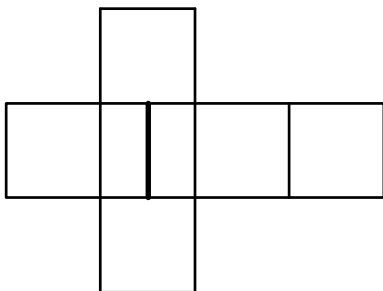
(3)



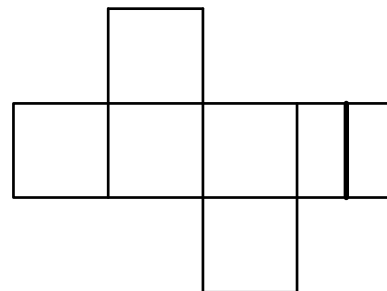
(4)



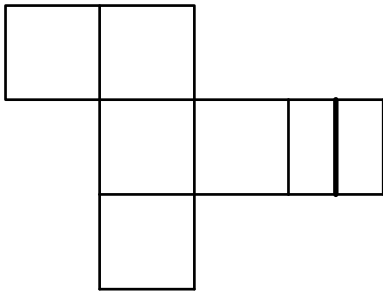
(5)



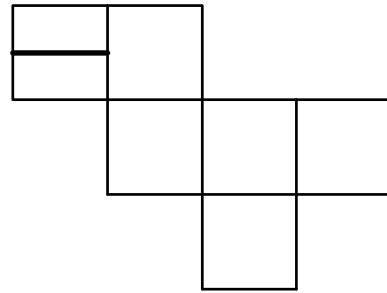
(6)



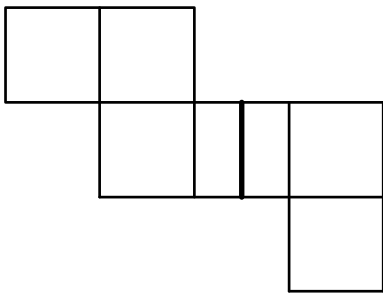
(7)



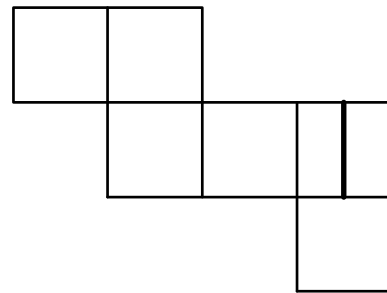
(8)



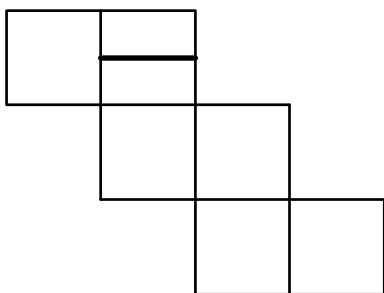
(9)



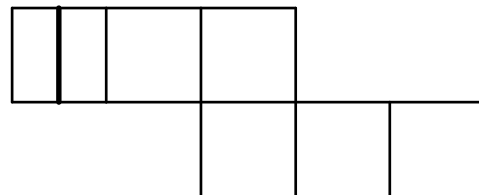
(10)



(11)



(12)

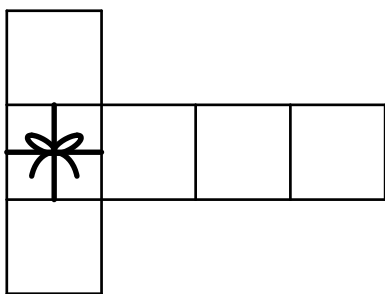


ステップ4 リボン

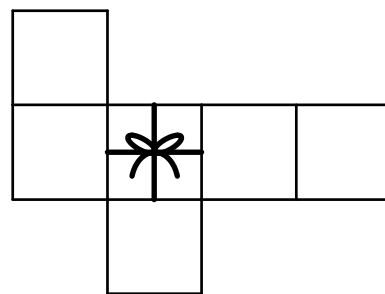
6 右の図のように、立方体の箱にリボンをかけました。  
 (1)~(12)は、この立方体の展開図です。それぞれの展開図において、残りの面にリボンの線を引きなさい。



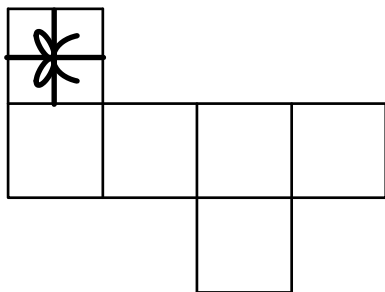
(1)



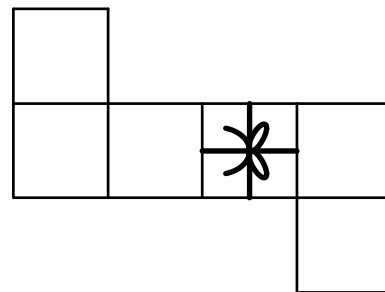
(2)



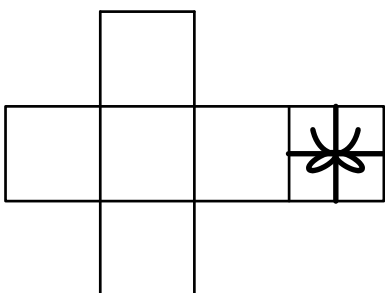
(3)



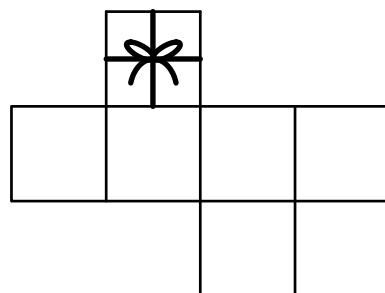
(4)



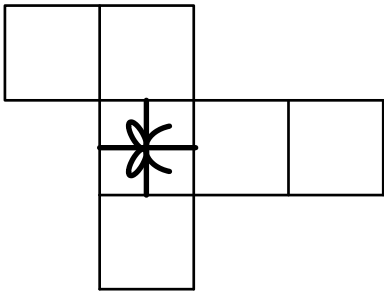
(5)



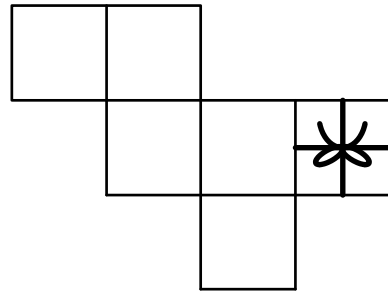
(6)



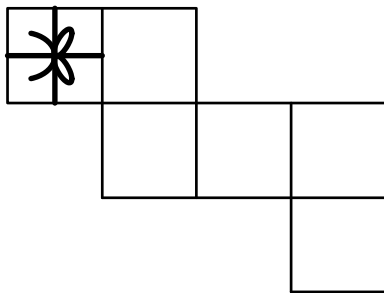
(7)



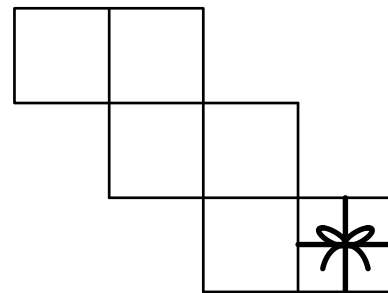
(8)



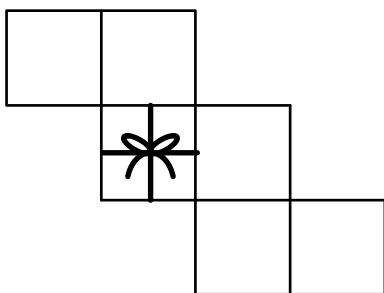
(9)



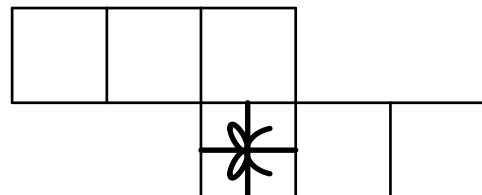
(10)



(11)



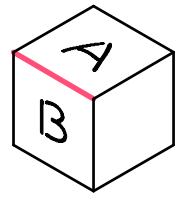
(12)



ステップ5 文字

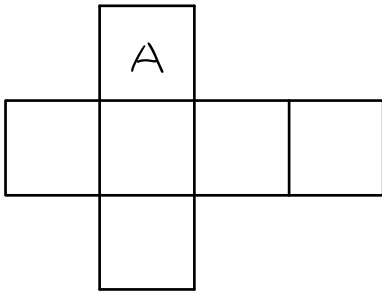
7

右の図のように、立方体の2つの面に文字をかきました。(1)~(6)は、この立方体の展開図です。それぞれの展開図において、残りの1つの文字をかきなさい。

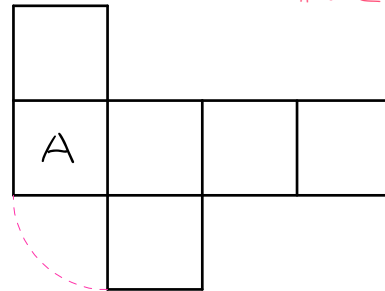


Aの下にBの頭がくると考えます。赤い辺に注目。

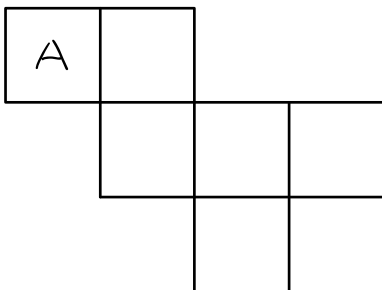
(1)



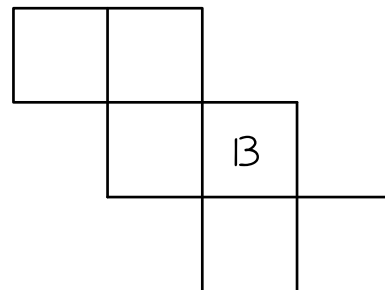
(2)



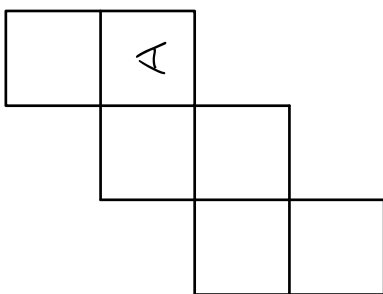
(3)



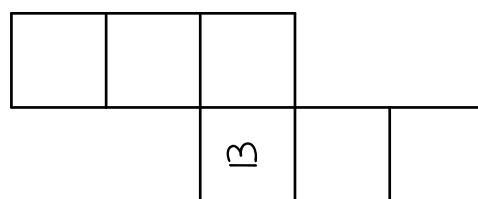
(4)



(5)

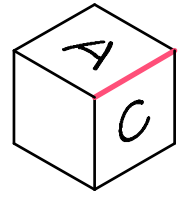


(6)



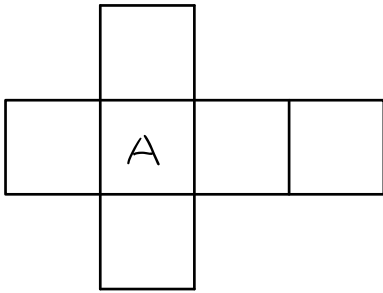
8

右の図のように、立方体の2つの面に文字をかきました。(1)~(6)は、この立方体の展開図です。それぞれの展開図において、残りの1つの文字をかきなさい。

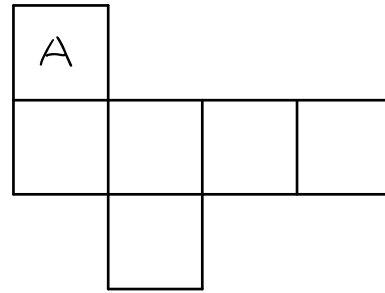


赤い辺に注目して  
考えなさい。

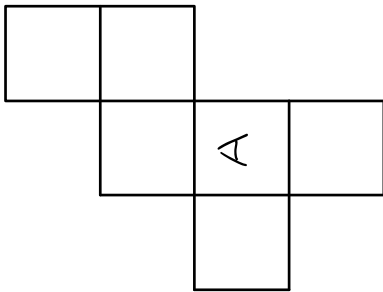
(1)



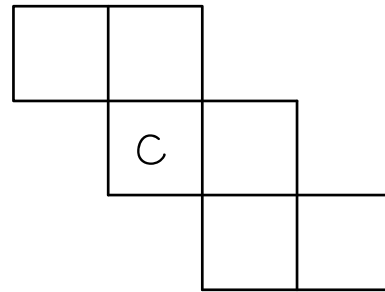
(2)



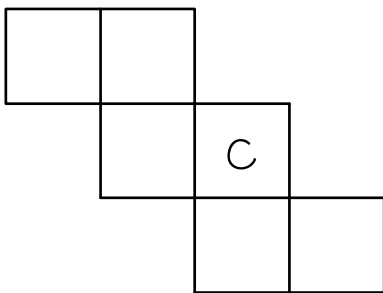
(3)



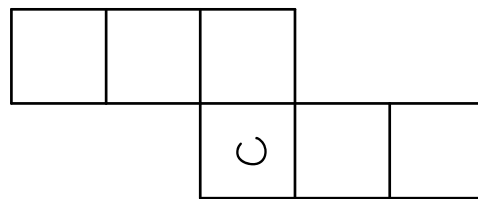
(4)



(5)



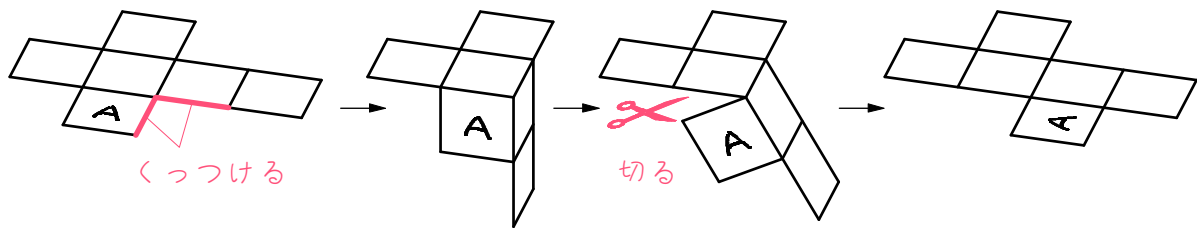
(6)



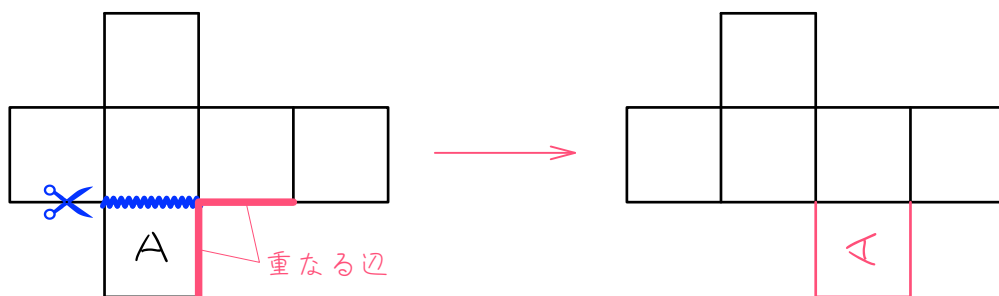


## 展開図の形をかえる

次の図は、立方体の展開図の赤い辺をくっつけて、そのあと、くっつけた辺とちがう辺で切りはなし、たいらにした様子です。



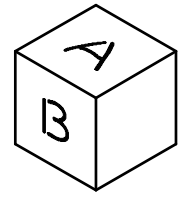
はじめの展開図と最後の展開図をくらべると、文字の書かれた面が1つ右にころがったように見えます。



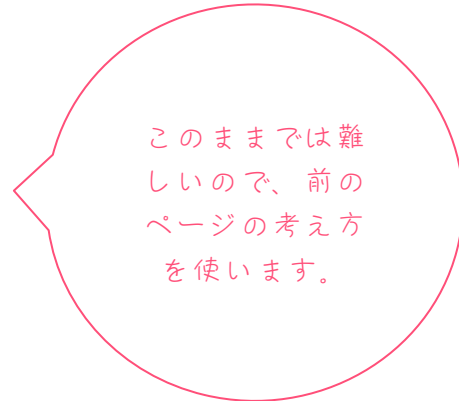
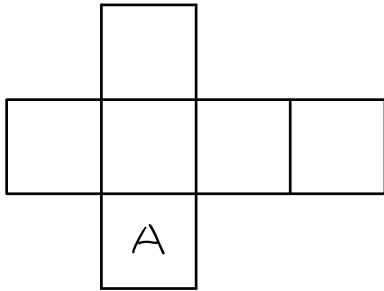
このように、展開図の1辺を切りはなしで、となりの「重なる辺」でくっつけることで、展開図の形を変えることができます。

9

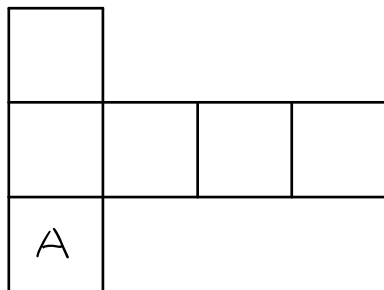
右の図のように、立方体の2つの面に文字をかきました。(1)~(5)は、この立方体の展開図です。それぞれの展開図において、残りの1つの文字をかきなさい。



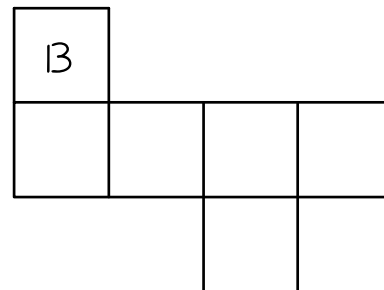
(1)



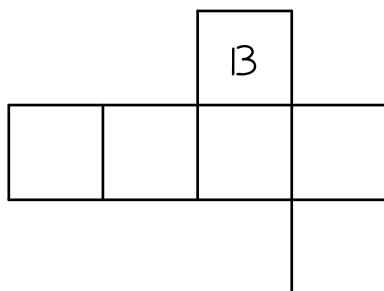
(2)



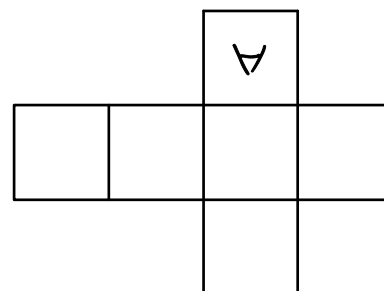
(3)



(4)

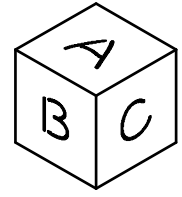


(5)

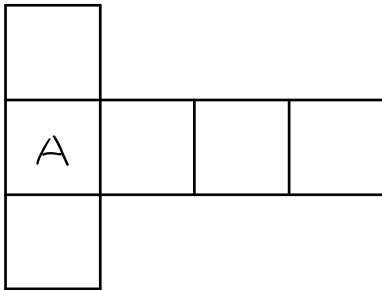


10

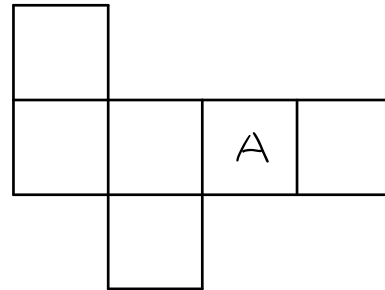
右の図のように、立方体の3つの面に文字をかきました。(1)~(6)は、この立方体の展開図です。それぞれの展開図において、残りの1つの文字をかきなさい。



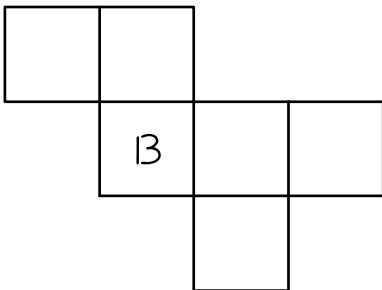
(1)



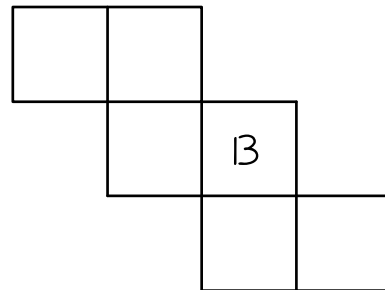
(2)



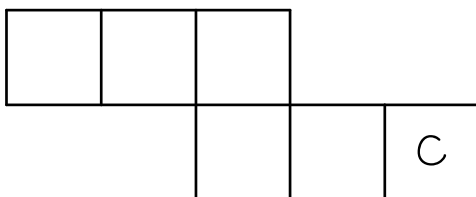
(3)



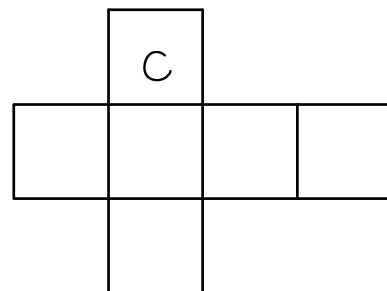
(4)



(5)

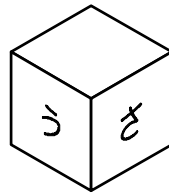
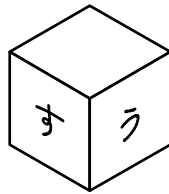
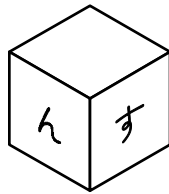
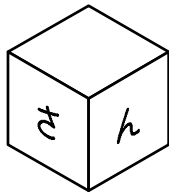


(6)

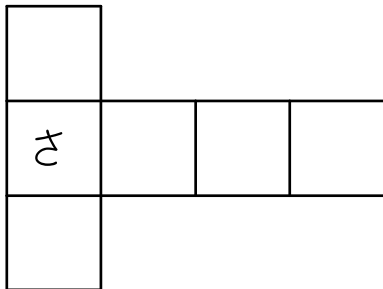


11

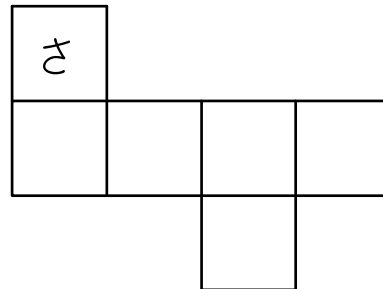
立方体の上下の面をのぞくまわりの4つの面に、「さんすう」と、同じ向きに順番にかきました。下の図は、この立方体を4つの方向から見た様子を表しています。(1)~(10)は、この立方体の展開図です。それぞれの展開図において、残りの文字を書きなさい。



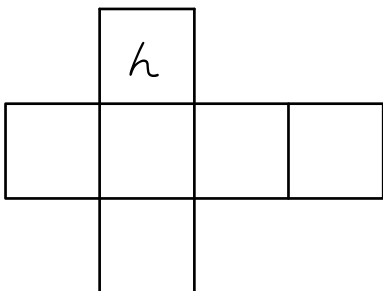
(1)



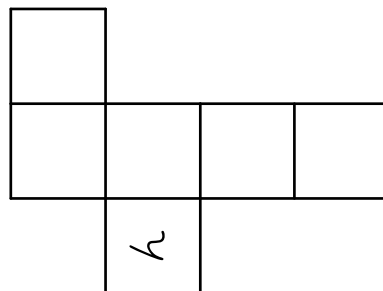
(2)



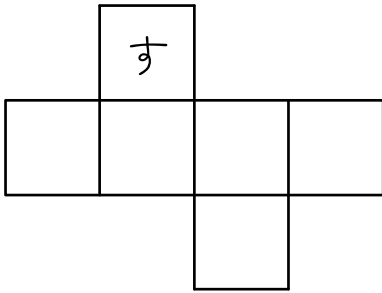
(3)



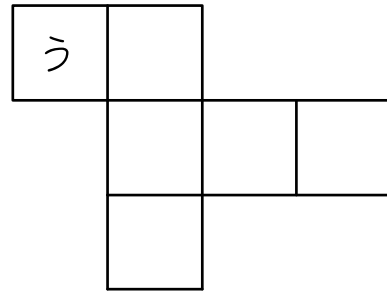
(4)



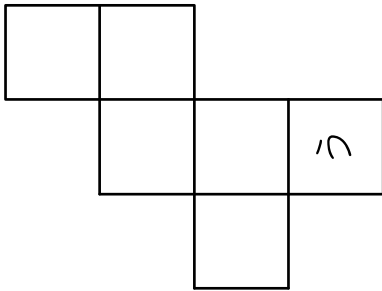
(5)



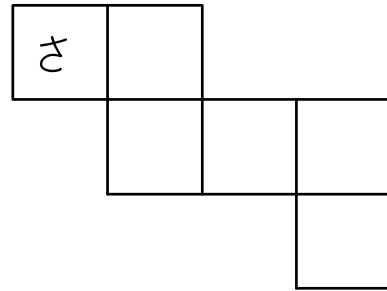
(6)



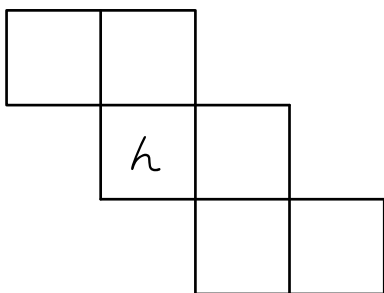
(7)



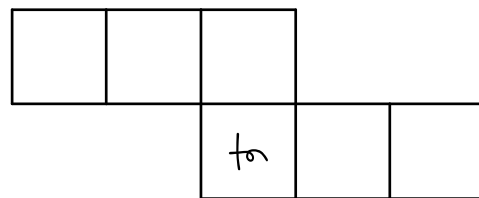
(8)



(9)



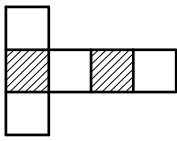
(10)



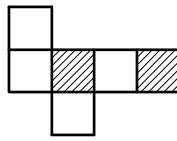
■ 解答 ■ ※赤・青はヒント

1

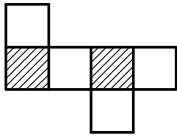
(1)



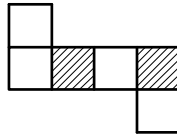
(2)



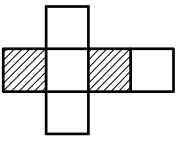
(3)



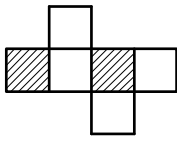
(4)



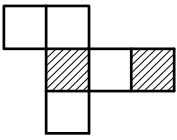
(5)



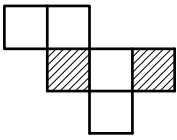
(6)



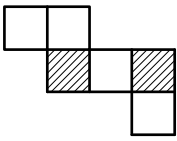
(7)



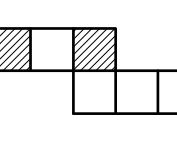
(8)



(9)

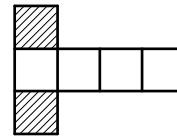


(10)

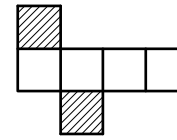


2

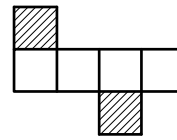
(1)



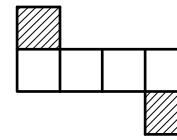
(2)



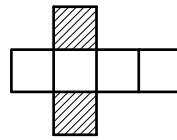
(3)



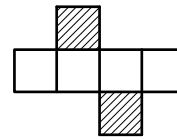
(4)



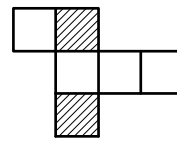
(5)



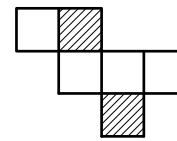
(6)



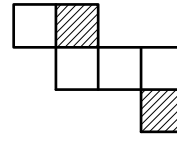
(7)



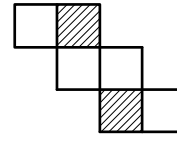
(8)



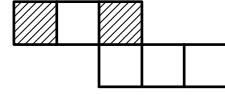
(9)



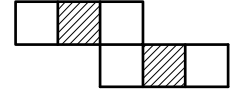
(10)



(11)

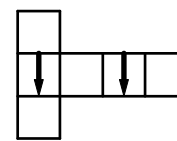


(12)

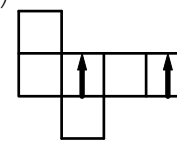


3

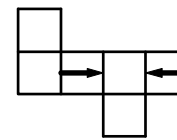
(1)



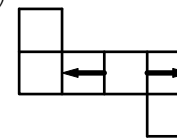
(2)



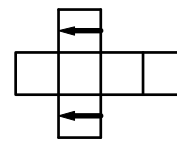
(3)



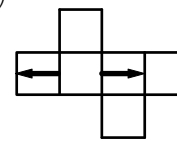
(4)



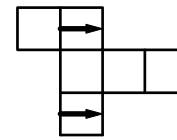
(5)



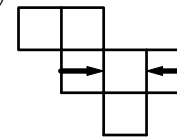
(6)



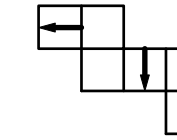
(7)



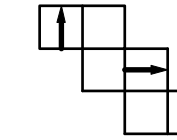
(8)



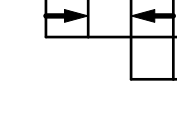
(9)



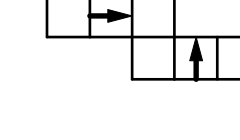
(10)



(11)

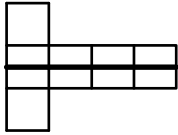


(12)

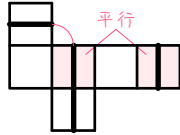


4

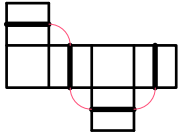
(1)



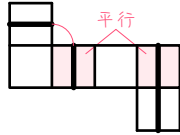
(2)



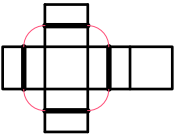
(3)



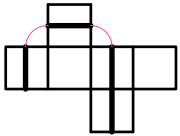
(4)



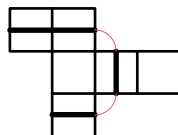
(5)



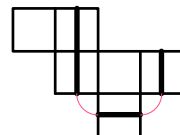
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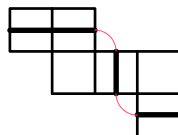
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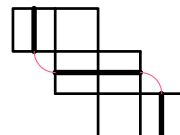
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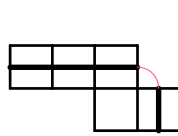
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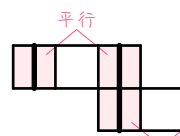
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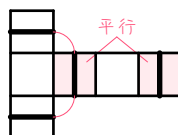


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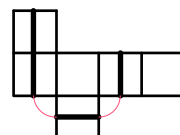


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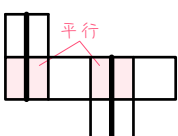
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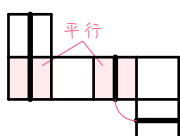
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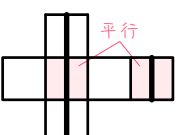
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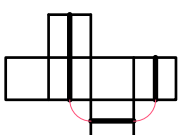
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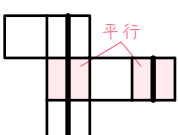
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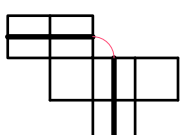
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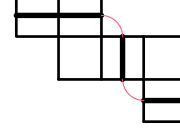


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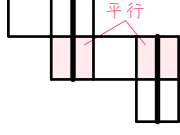


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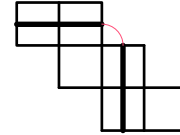
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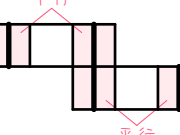
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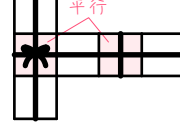
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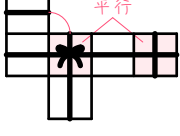
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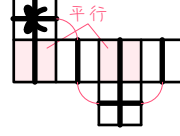
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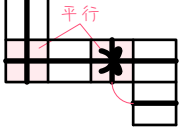
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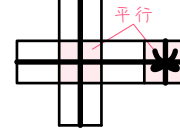
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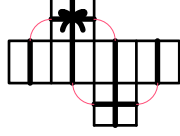
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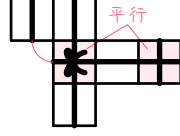
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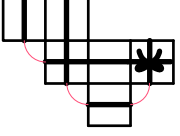
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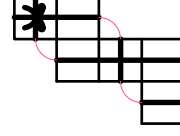
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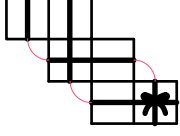
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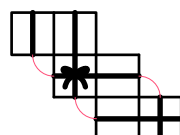
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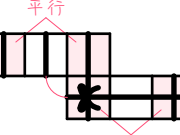
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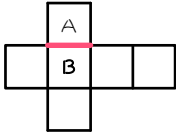


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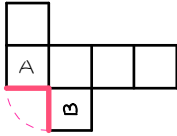


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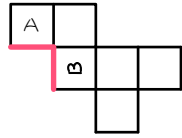
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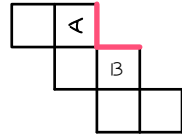
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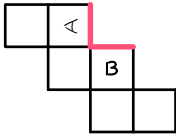
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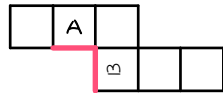
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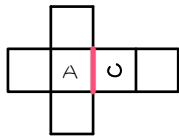


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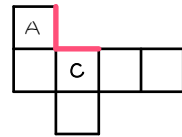


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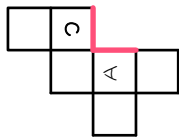
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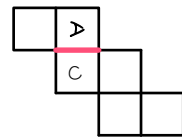
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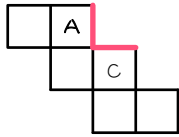
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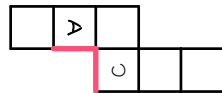
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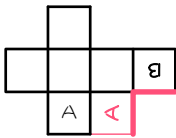


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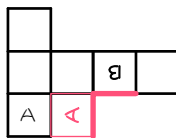


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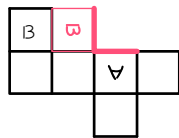
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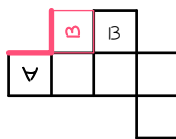
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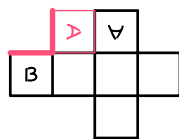
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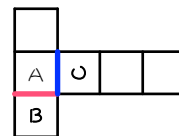


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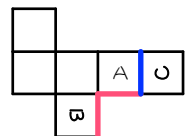


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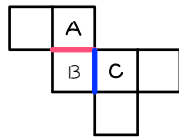
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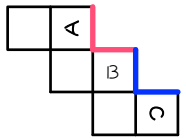
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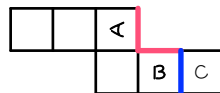
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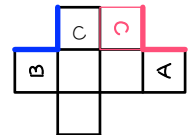
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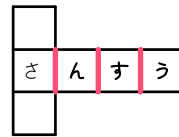


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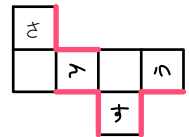


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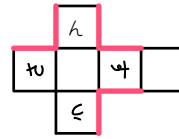
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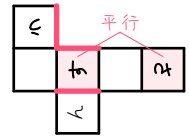
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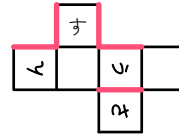
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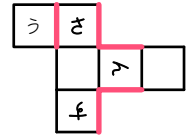
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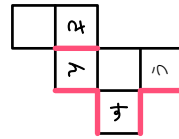
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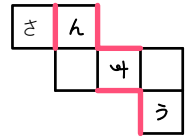
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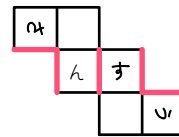
(7)



(8)



(9)



(10)

