

第4問 次の問い(A・B)に答えよ。(配点 33)

A 次の文章と図およびグラフを読み、下の問い(問1～3)に対する答えとして
 35 ～ 37 に入れるのに最も適当なものを、それぞれ下の①～④のうち
 から一つずつ選べ。

Wood used in the construction of homes must be stable. That is, it must not change size too much. But wood from a tree that has just been cut down will shrink considerably over time. This shrinkage is caused by moisture (water) within the wood escaping into the atmosphere. The drying process of wood is known as "seasoning." There are actually two ways to season wood. One way is to allow the natural drying process to occur. The other is to put it in a special oven called a kiln. Kiln drying is much faster than the natural method.

1 : 木材は縮む。新しく切り落とされた木材ほどかなり縮む。それは木材の中の水分変化のため。木材の乾燥工程は seasoning と呼ばれ、2種類その方法がある。kiln dryingの方が自然乾燥より早く乾燥する。

During the seasoning process, water is removed from the wood until the moisture content of the wood is approximately equal to the humidity of the air around it. These changes in size due to shrinkage are not uniform because changes depend on the kinds of trees, the way trees are cut, and the surrounding conditions.

2 : seasoning 工程により、木材内の水分は、大気的水分とほぼ同じになる。shrinkage によるサイズの変更は、木、切り方、その他条件によるため、一定ではない。

It is also important to note that even after seasoning, there will always be some small changes in size due to changes in the humidity of the surrounding air. For example, last year, I used a 230 mm wide piece of eastern white pine wood to make a cabinet door. It changed in width across the grain (*Figure 1*), shrinking by 2 mm from the original in the winter and expanding by 3 mm from the original in the summer.

3 : seasoning を経ても、些少の変化はまだある。例、冬は original -2 mm, 夏は original +3mm

The moisture content of wood changes according to the seasons even when it is kept indoors. Wood is often painted to prevent sharp changes in moisture content, which cause expansion and shrinkage. However, no paint can completely block the passage of moisture. Paint only acts to slow down the transfer of moisture to or from the wood. As illustrated in the graph

4 : 室内の木材でさえ、季節でサイズが変わる。膨張や縮小を引き起こす水分の大きな変化を防ぐため、木材は塗装される。しかし、塗装したからといって、完全に湿気を防ぐことができるわけではない。塗装は、木材への湿気の変化を弱めるだけ!

(Figure 2), the moisture content of unpainted wood inside a house may change according to the seasons from 4% to about 14%, while the moisture content of a painted piece of kiln-dried wood in the same house will only vary around the 8% line. Wood that has been naturally dried to around 13% moisture content and then painted will continue to dry gradually until it reaches about the same percentage of moisture as painted kiln-dried wood.

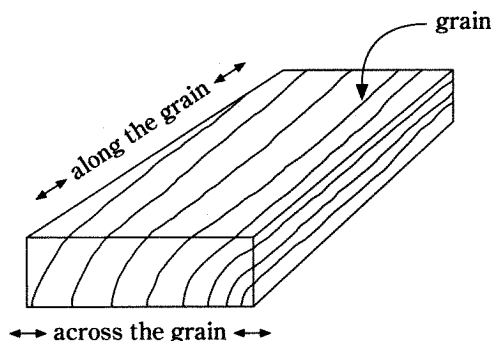


Figure 1 The eastern white pine wood used in the cabinet door

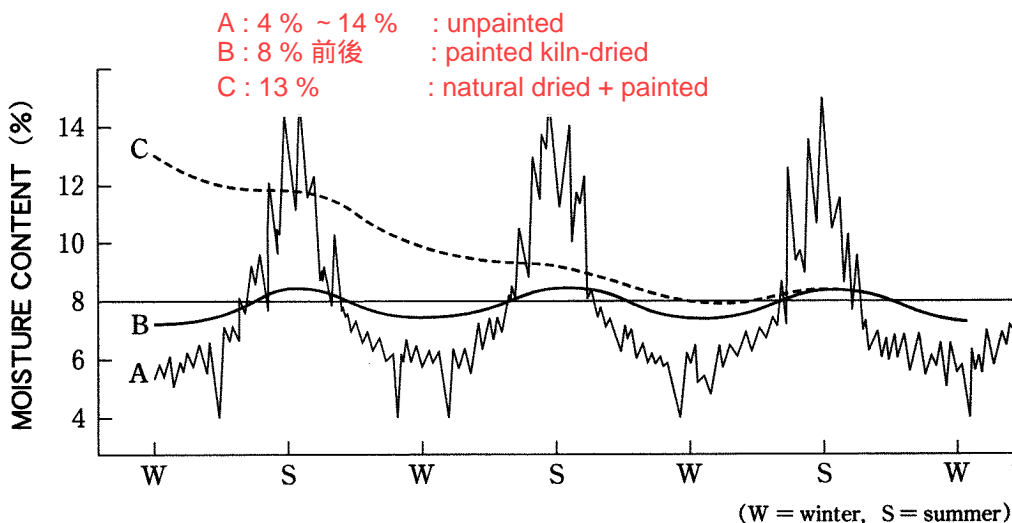


Figure 2 Seasonal changes in the moisture content of interior wood

(Location: Northern United States)

Understanding Wood: A Craftsman's Guide to Wood Technology

R.B. Hoodley (2000) を参考に作成

問 1 Between the winter and summer, what was the difference in width across the grain of the wood used in the cabinet door? 35

冬と夏で、 across the grain の幅にどれくらい違いがあるか？

① 2 mm

$$3 \text{ mm} - (-2 \text{ mm}) = 5 \text{ mm}$$

② 3 mm

③ 5 mm 引っ掛け問題： original size があり、そのoriginal に比べて
冬 - 2 mm , 夏 + 3mm と記されている。

④ 8 mm

問 2 Which of the lines in the graph (Figure 2) represent painted wood?

36

painting を表す グラフは どれか？

Aは塗装されていないグラフであることが第4節から分かる。
=> 選択肢で Aを含むものを消去すれば だけが残る。

① ~~A~~ and B

② ~~A~~ and C

③ ~~A~~, B, and C

④ B and C

もっと読めば B・Cのグラフの説明もあるので が正解
であることは、文中からも確認できる

問 3 Which of the following statements is true?

37

① Kiln-dried wood does not later change size due to the humidity in the air.

② Oven-dried and naturally dried wood are both influenced by the surrounding air.

③ The moisture content of painted wood does not change.

④ Wood can be "seasoned" by painting it.

強調 選択肢：
does not later change とまでは言っていない

強調 選択肢：
does not change とまでは言っていない

ズレ 選択肢：
painting とseasoned は無関係

英文を読む前に全問を読み、問題を把握しておくこと。
各段落の要旨を手短に把握すること。

B 次のページのコンサートに関する広告を読み、次の問い(問1～3)の
38 ~ 40 に入れるのに最も適当なものを、それぞれ下の①～④のうち
から一つずつ選べ。

Seven Funky Rangers の 春コンサートが Action City Stadium である？
Seven Funky Rangers は 2 曲の大ヒット曲で有名？
Seven Funky Rangers は 今年何度も演奏する？
伝説の Hip Hop Heroes がメイン？

問 1 Which of the following statements is true? 38
正しいのを選べ

- ① Acton City Stadium will host *Seven Funky Rangers*' spring concert.
- ② *Seven Funky Rangers* are famous for their two top-selling songs.
- ③ *Seven Funky Rangers* will perform several times this year.
- ④ The legendary *Hip Hop Heroes* are the main attraction.

問 2 Which of the following costs \$80 if bought on August 18th? 39

8月18日に買えば80\$のシートはどれ？
=> 当日券 で80\$のシートは？

- ① One class A standard seat.
- ② One class B standard seat.
- ③ One class B VIP seat.
- ④ One stage front ticket.

問 3 A family consisting of a father aged 41, a mother aged 40, two boys aged
14, and a girl aged 13, providing proof of age for the children, would
40 .

父41才、母40才、男の子2人14才、女の子13才の(5人)家族は...?

- ① all be allowed to enter the stage front section
- ② exceed the maximum number of tickets that can be bought at one time
- ③ receive a 50% discount on three tickets when purchasing in advance
- ④ receive a 10% discount when purchasing five tickets at one time

全員 stage front section に入れる？
最大同時申し込み枚数を超過している？
3 枚分のチケットは 前売り券を買えば50%オフ？
5 枚同時に買えば10%オフ？

Acton City Stadium proudly presents the legendary **Seven Funky Rangers** Aug. 18th

The world-famous pop group **Seven Funky Rangers** will play at the Acton City Stadium, **Saturday, August 18th**. Famous for their number one hits *Don't Cry No More* and *Too Busy Living Life To The Full*, **Seven Funky Rangers** will only perform once this year, so don't miss this chance. Also appearing, **Hip Hop Heroes**. Doors open at 6:00 pm.

Ticketing

Advanced purchase strongly recommended.

Non-reserved tickets available on the day at the door.

Seven Funky Rangers のコンサートがあるのは 8月18日。
最大ヒット曲の Don't Cry No more と Too Busy Living Life To The Full で有名。
今年唯一のコンサート。
Hip Hop Heroes も出演する。

Ticket type	Price (advanced sales only)	Status
VIP seating	A : \$ 300	Sold out
	B : \$ 200	Available
Standard seating	A : \$ 80	Available
	B : \$ 60	Available
Stage front (standing only)	\$ 50	Sold out

当日券は、前売権 + 20 \$ 前売券 60 \$ のものは

*Add \$20 to the advertised prices above for on-the-day ticket sales.

*Young people (ages 10-18, proof of age required) receive 50% off the above prices
(advanced purchases only).
10-18才の子供(身分証 必要)が、前売券を購入すれば 50%オフ

*No one under 16 allowed in the stage front section.

*No children under 10 allowed.

*A maximum of five tickets can be purchased at one time.

*Senior citizens (ages 65 and over) receive 10% off advanced sales prices.

*VIP seating includes food and drinks and a back stage tour.

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We accept all major credit cards.