



ALBERTA FOREST PRODUCTS ASSOCIATION
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A.F.P.A. FALL 2021 & SPRING 2022 GRADE EXAM

Name: _____ Date: _____

Company: _____ Location: _____

Mark the answer you choose with an **[X]**. ONLY ONE ANSWER PER QUESTION PLEASE!

1. The portion of a branch or limb cut through by a saw, results in what type of defect?

☐ Checks ☐ Splits ☐ Knots ☐ Warp

2. What piece of information is **NOT** required to be on a Grade Stamp:

☐ CLSAB ☐ NLGA ☐ Species ☐ Grade

3. An indication that a piece of lumber contains **SLOPE of GRAIN** is?

☐ Twist ☐ Cup ☐ Shake ☐ Decay

4. Which Species is being attacked by "Mountain Pine Beetle"?

☐ Tamarack ☐ Lodgepole Pine ☐ White Spruce ☐ Douglas Fir

5. Which of the following species is a Hardwood?

☐ Black Spruce ☐ Douglas Fir ☐ Tamarack ☐ Aspen

6-9. Match the category name with the correct NLGA paragraph number. (e.g. a)

- | | | |
|------------------------------|---------------|-------|
| a) Economy | 6. Para. 122 | _____ |
| b) Light Framing | | |
| c) MSR | 7. Para. 121 | _____ |
| d) Structural Joist & Planks | | |
| e) Stud | 8. Para. 124 | _____ |
| f) #3 | 9. Para. 122e | _____ |

Mark the following **DEFECTS** under the correct **CLASSIFICATION**:

	Defect	Natural	Manufacturing	Seasoning
10.	Skip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11.	Crook	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12.	Checks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13.	Shake	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Match the following **MANUFACTURING DEFECTS** to the correct **DEPTH CLASSIFICATION**:

	DEFECT	1/64"	1/32"	1/16"	1/8"	Over 1/8"
14.	Very Heavy Offset	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.	Light Torn Grain	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16.	Very Light Skip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17.	Medium Wavy Dressing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Mark the correct dressed **THICKNESS** for the following:

18.	4 x 4 S-GRN HT	<input type="checkbox"/> 3 1/2"	<input type="checkbox"/> 3 3/4"	<input type="checkbox"/> 3 9/16"	<input type="checkbox"/> 3 5/8"
19.	1 x 6 S-DRY	<input type="checkbox"/> 1/2"	<input type="checkbox"/> 5/8"	<input type="checkbox"/> 3/4"	<input type="checkbox"/> 25/32"
20.	3 x 12 KD-HT	<input type="checkbox"/> 2 1/4"	<input type="checkbox"/> 2 1/2"	<input type="checkbox"/> 3"	<input type="checkbox"/> 2 3/4"
21.	2 x 12 S-GRN	<input type="checkbox"/> 2"	<input type="checkbox"/> 1 3/4"	<input type="checkbox"/> 1 1/2"	<input type="checkbox"/> 1 9/16"

Mark the correct dressed WIDTH for the following:					
22.	2 x 12 S-GRN	[] 11 1/4"	[] 11 1/2"	[] 11 9/16"	[] 11 5/8"
23.	2 x 6 S-GRN HT	[] 5 1/4"	[] 5 1/2"	[] 5 9/16"	[] 5 5/8"
24.	3 x 8 S-DRY HT	[] 7 1/2	[] 7 9/16	[] 7 5/8"	[] 7 1/4"
25.	4 x 4 KD-HT	[] 3 1/2"	[] 3 3/4"	[] 3 9/16"	[] 4"

Mark the Highest grade of Par.121 Stud that allows the following for a 2 x 4 - 104 5/8" long:			
	DEFECT	STUD	ECONOMY
26.	Wane 1/2 thickness on the end	[]	[]
27.	White Speck 100%	[]	[]
28.	Decay 1/2 the cross section	[]	[]
29.	Skip 1/16" on one edge full length	[]	[]
30.	1 in 4 Slope of Grain	[]	[]
31.	Split 1/3 the length	[]	[]

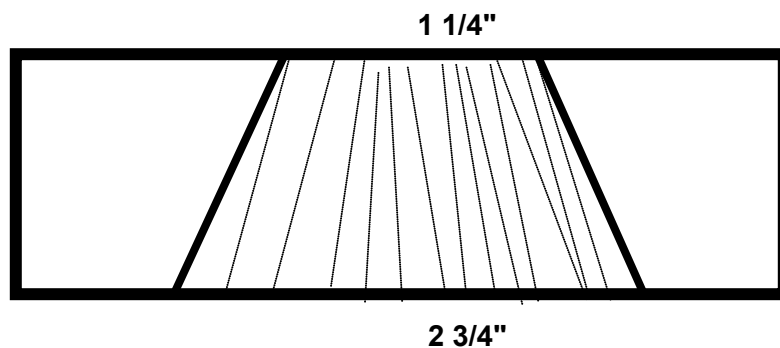
Mark the HIGHEST grade of Par. 122 Light Framing that allows the following for a 2 x 4 - 16 feet long:					
	DEFECT	CONSTRUCTION	STANDARD	UTILITY	ECONOMY
32.	1 in 6 Slope of Grain	[]	[]	[]	[]
33.	Shake through the edge (3 face)	[]	[]	[]	[]
34.	Full length wane, 3/4 thickness	[]	[]	[]	[]
35.	Decay 1/3 the cross section	[]	[]	[]	[]
36.	Knot 2" on the face	[]	[]	[]	[]
37.	Split 1½ X Width	[]	[]	[]	[]
38.	Wane completely across the wide face on the end	[]	[]	[]	[]
39.	Heavy warp	[]	[]	[]	[]
40.	Surface shake 2'	[]	[]	[]	[]

Mark the **HIGHEST** grade of **Par. 124 Structural Light Framing and Joist & Planks** that allows the following in a **2 x 8-10** feet long:

	DEFECT	SEL STR	#1	#2	#3	NONE
41.	Wane 1/4 T x 1/4 W full length	[]	[]	[]	[]	[]
42.	100% Blue Stain	[]	[]	[]	[]	[]
43.	Surface Shake full length	[]	[]	[]	[]	[]
44.	Slope of Grain 1 in 10	[]	[]	[]	[]	[]
45.	Shake through the edge (3 face)	[]	[]	[]	[]	[]
46.	½ Medium Warp	[]	[]	[]	[]	[]
47.	Skip 1/16 inch deep full length	[]	[]	[]	[]	[]
48.	Hit & Miss Skip	[]	[]	[]	[]	[]
49.	Wane 1/3 T x 1/3 W full length	[]	[]	[]	[]	[]
50.	Wane 3/4T x 3/4W Maximum Equiv.	[]	[]	[]	[]	[]
51.	Through Shake 2 feet long	[]	[]	[]	[]	[]
52.	Edge Knot 3-1/2"	[]	[]	[]	[]	[]
53.	Split 12 inches of the piece	[]	[]	[]	[]	[]
54.	Spike Knot 55% displacement	[]	[]	[]	[]	[]
55.	Decay	[]	[]	[]	[]	[]
56.	100% Heart Stain	[]	[]	[]	[]	[]

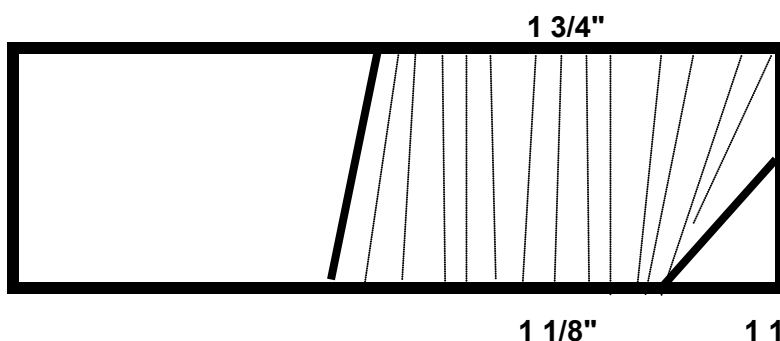
List the knot sizes for the following **KD-HT 2 x 4's**

57. List the knot size:



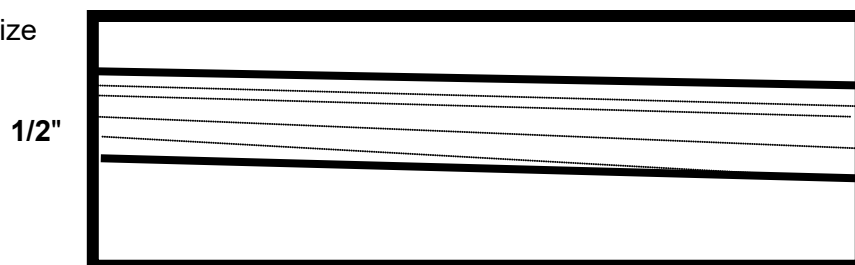
SIZE

58. List the knot size:



SIZE

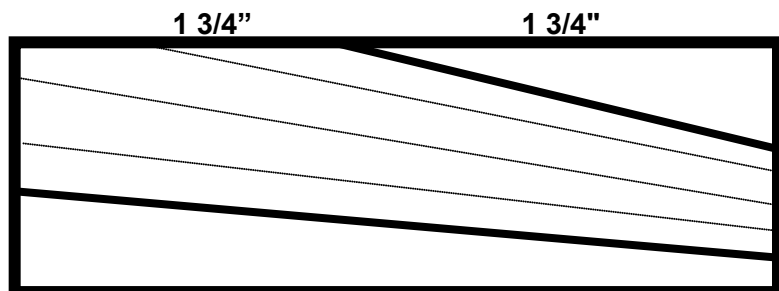
59. List the knot size



3/8"

SIZE

60. List the knot size
1"



3/4"

SIZE