



ALBERTA FOREST PRODUCTS ASSOCIATION
900, 10707 100th Avenue
EDMONTON, ALBERTA T5J 3M1
PHONE: (780) 452-2841 FAX: (780) 455-0505

A.F.P.A. FALL 2015 & SPRING 2016 GRADE EXAM

Name: _____ Date: _____

Company: _____ Location: _____

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

1. Which of the following Species belong in the S-P-F?

☐ Sitka Spruce ☐ Ponderosa Pine ☐ Black Spruce ☐ Tamarack

2. In a living tree, which is more likely to rot?

☐ Bark ☐ Bast ☐ Sapwood ☐ Heartwood

3. Water contained in the cell walls is called:

☐ Free Water ☐ Bound Water ☐ Flow Water ☐ Held Water

4. A growth ring composed of cells which have **Thick Walls** and **Small Cavities** is called:

☐ Annual Ring ☐ Springwood ☐ Heart Wood ☐ None of these

5. A piece of wood that dries from 85% MC to 45% MC will become:

☐ Durable ☐ Smaller ☐ Stronger ☐ Lighter

6. Maximum moisture content for lumber sold as KD-HT is :

☐ 12% ☐ 15% ☐ 19% ☐ 26%

7. A deviation **FLATWISE** from a line drawn **END to END**, is what kind of warp:

☐ Crook ☐ Cup ☐ Bow ☐ Twist

8. Moisture is able to transfer from cell to cell through small opening called:

☐ Pits ☐ Wood Rays ☐ Sapwood ☐ Bast

9. Bark or lack of wood, on the edge or corner of a piece of lumber, is known as:

☐ Manufactured hole ☐ Eased Edge ☐ Wane ☐ Skip

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

	Defect	Natural	Manufacturing	Seasoning
10.	Spike Knots	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11.	Roller Check	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12.	White Speck	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13.	Wane	<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.	Heavy Skip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
54.	Medium Mismatch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16.	Very Light Offset	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17.	Light 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.	3 x 4 S-GRN	<input type="checkbox"/> 2 1/2"	<input type="checkbox"/> 2 3/4"	<input type="checkbox"/> 2 9/16"	<input type="checkbox"/> 2 5/8"
19.	1 x 6 KD-HT	<input type="checkbox"/> 1 1/2"	<input type="checkbox"/> 5/8"	<input type="checkbox"/> 3/4"	<input type="checkbox"/> 25/32"
20.	2x 8 S-GRN	<input type="checkbox"/> 1 9/16"	<input type="checkbox"/> 1 1/2"	<input type="checkbox"/> 1 5/8 "	<input type="checkbox"/> 1 1/4"
21.	4 x 10 S-DRY	<input type="checkbox"/> 3 1/4"	<input type="checkbox"/> 3 3/4"	<input type="checkbox"/> 3 1/2"	<input type="checkbox"/> 4"

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

22.	2 x 10 S-DRY	<input type="checkbox"/> 9 1/4"	<input type="checkbox"/> 9 9/16"	<input type="checkbox"/> 9 5/8"	<input type="checkbox"/> 9 1/2"
23.	2 x 8 S-GRN	<input type="checkbox"/> 7 1/4"	<input type="checkbox"/> 7 1/2"	<input type="checkbox"/> 7 9/16"	<input type="checkbox"/> 7 5/8"
24.	3 x 6 S-DRY	<input type="checkbox"/> 5 1/2"	<input type="checkbox"/> 5 9/16"	<input type="checkbox"/> 5 5/8"	<input type="checkbox"/> 6"
25.	1 x 4 KD-HT	<input type="checkbox"/> 3 1/2"	<input type="checkbox"/> 3 3/4"	<input type="checkbox"/> 1 7/16"	<input type="checkbox"/> 4"

Mark the **Highest** grade of **Par.121 Stud** that allows the following for a **2 x 6 - 92 5/8"** long:

	DEFECT	STUD	ECONOMY
26.	Wane 2/3 thickness on the end	<input type="checkbox"/>	<input type="checkbox"/>
27.	Wane 2/3 width on the end	<input type="checkbox"/>	<input type="checkbox"/>
28.	Decay 1/3 the cross section	<input type="checkbox"/>	<input type="checkbox"/>
29.	Skip 1/8" on one edge 6" Long	<input type="checkbox"/>	<input type="checkbox"/>
30.	Spike Knot 45% displacement	<input type="checkbox"/>	<input type="checkbox"/>
31.	Split 1/6 the length	<input type="checkbox"/>	<input type="checkbox"/>

Mark the **HIGHEST** grade of **Par. 122 Light Framing** that allows the following for a **2 x 4 - 16** feet long:

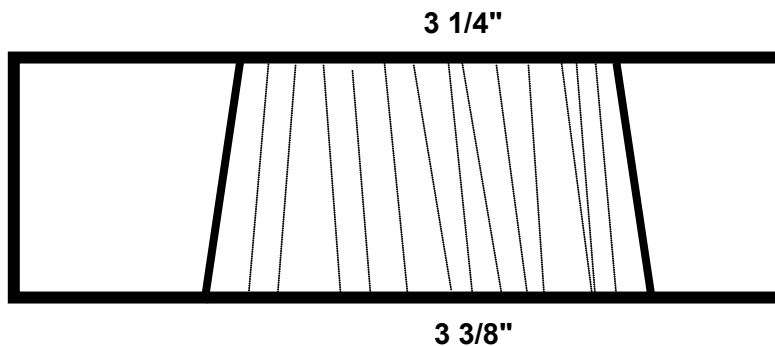
	DEFECT	CONSTRUCTION	STANDARD	UTILITY	ECONOMY
32.	White Speck 1/3 of the volume	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
33.	Three Face Shake	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
34.	Full length wane, 1/4 thickness	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
35.	Decay 1/3 the cross section	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
36.	Knot 2½" on the edge of face	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
37.	Split 1/6 the length	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
38.	Wane completely across the wide face away from the end	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
39.	Light warp	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
40.	Surface shake 24" Long	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Mark the **HIGHEST** grade of **Par. 124 Structural Light Framing and Joist & Planks** that allows the following in a **2 x 6-16** feet long:

	DEFECT	SEL STR	#1	#2	#3	NONE
41.	Wane 1/4 T x 1/3 W full length	[]	[]	[]	[]	[]
42.	100% Heart Stain	[]	[]	[]	[]	[]
43.	Surface Shake 2 feet long	[]	[]	[]	[]	[]
44.	Slope of Grain 1 in 4	[]	[]	[]	[]	[]
45.	Shake through the edge (3 face)	[]	[]	[]	[]	[]
46.	Light Warp	[]	[]	[]	[]	[]
47.	Skip 1/4 inch deep full length	[]	[]	[]	[]	[]
48.	Through Shake 3 feet long	[]	[]	[]	[]	[]
49.	Wane 1/2 T x 1/2 W full length	[]	[]	[]	[]	[]
50.	Wane 1/3T x 1/3W Maximum Equiv.	[]	[]	[]	[]	[]
51.	Decay 1/2W x 2 inches long	[]	[]	[]	[]	[]
52.	Edge Knot 1-7/8"	[]	[]	[]	[]	[]
53.	Split Width of the piece	[]	[]	[]	[]	[]
54.	Surface shake ½ length	[]	[]	[]	[]	[]
55.	White Speck 1/3 Volume	[]	[]	[]	[]	[]
56.	16 Grub Holes	[]	[]	[]	[]	[]

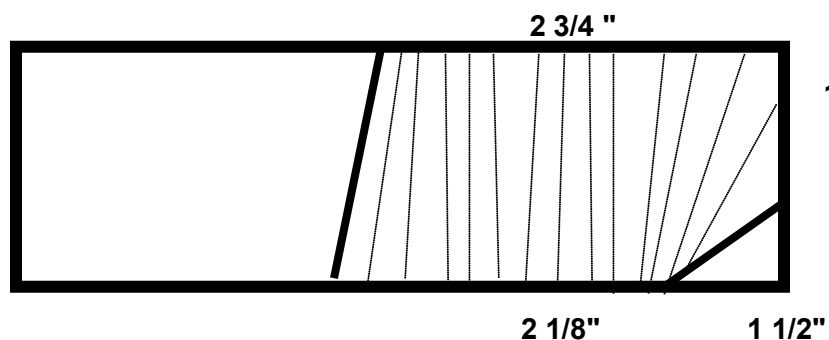
List the knot sizes for the following **KD-HT 2 x 6's**

57. List the knot size:



SIZE

58. List the knot size:

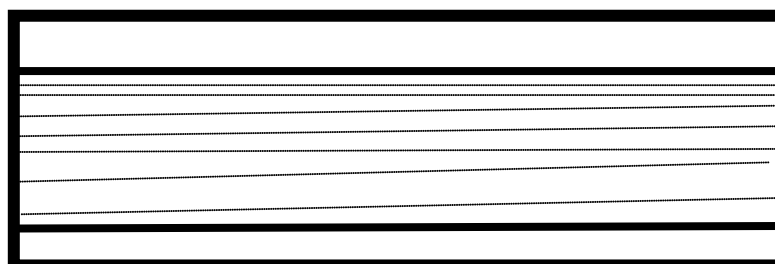


1"

SIZE

59. List the knot size

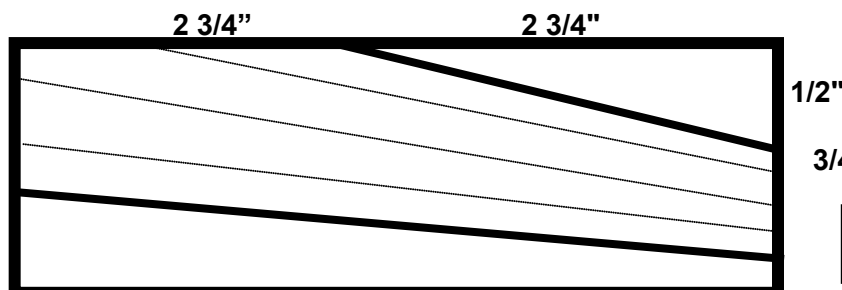
1"



1"

SIZE

60. List the knot size
1"



1/2"

3/4" SIZE