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A.F.P.A. FALL 2016 & SPRING 2017 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. The fungus "**Fomes Pini**" found in a living tree, causes what type of defect?

☐ Pitch ☐ White Speck ☐ Unsound ☐ Shake

3. Which is a undesirable feature of lumber:

☐ Splits ☐ Painting Qualities ☐ Finishing Quality ☐ Strong

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

☐ Tamarack ☐ Lodgepole Pine ☐ White Spruce ☐ Douglas Fir

5. What part of the tree manufactures tree food?

☐ Crown ☐ Bast ☐ Sapwood ☐ Heartwood

6-9. Match the characteristics with the description. (e.g. a)

- a) 22" long
- b) 24" long
- c) 40" long
- d) 48" long
- e) 21" long
- f) 32" long

- 6. 1/6 the length of a 16' _____
- 7. 1/3 the length of a 10' _____
- 8. 1/2 the length of a 8' _____
- 9. 1/4 the length of a 7' _____

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

	Defect	Natural	Manufacturing	Seasoning
10.	Fomes Pini	[]	[]	[]
11.	Twist	[]	[]	[]
12.	Checks	[]	[]	[]
13.	Shake	[]	[]	[]

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

	DEFECT	1/64"	1/32"	1/16"	1/8"	Over 1/8"
14.	Heavy Mismatch	[]	[]	[]	[]	[]
15.	Medium Torn Grain	[]	[]	[]	[]	[]
16.	Very Light Skip	[]	[]	[]	[]	[]
17.	Light Offset	[]	[]	[]	[]	[]

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

18.	4 x 4 S-GRN HT	[] 3 1/2"	[] 3 3/4"	[] 3 9/16"	[] 3 5/8"
19.	1 x 6 S-GRN	[] 1/2"	[] 5/8"	[] 3/4"	[] 25/32"
20.	2 x 12 KD-HT	[] 1 9/16"	[] 1 1/2"	[] 1 5/8 "	[] 1 1/4"
21.	3 x 12 S-DRY	[] 2 1/4"	[] 2 3/4"	[] 2 1/2"	[] 3"

Mark the correct dressed WIDTH for the following:					
22.	2 x 10 S-GRN HT	[] 9 1/4"	[] 9 1/2"	[] 9 9/16"	[] 9 5/8"
23.	2 x 8 S-DRY HT	[] 7 1/4"	[] 7 1/2"	[] 7 9/16"	[] 7 5/8"
24.	3 x 6 S-GRN HT	[] 5 1/2	[] 5 9/16	[] 5 5/8"	[] 6
25.	4 x 4 KD-HT	[] 3 1/2"	[] 3 3/4"	[] 1 7/16"	[] 4"

Mark the Highest grade of Par.121 Stud that allows the following for a 2 x 4 - 92 5/8" long:			
	DEFECT	STUD	ECONOMY
26.	Wane 1/2 thickness on the end	[]	[]
27.	Wane 3/4 width on the end	[]	[]
28.	Decay 1/2 the cross section	[]	[]
29.	Skip 1/16" on one edge full length	[]	[]
30.	Edge Knot 45% displacement	[]	[]
31.	Split 1/3 the length	[]	[]

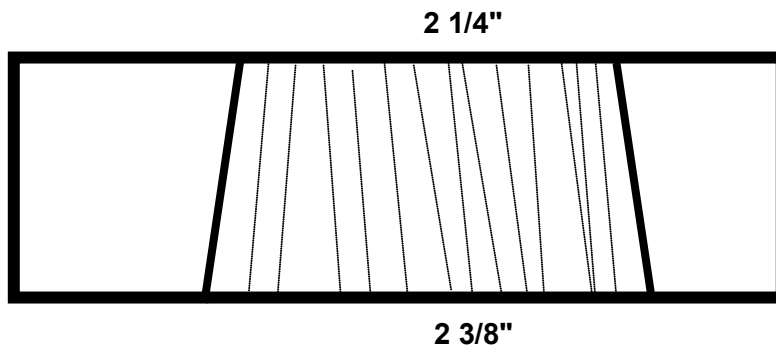
Mark the HIGHEST grade of Par. 122 Light Framing that allows the following for a 2 x 4 - 16 feet long:					
	DEFECT	CONSTRUCTION	STANDARD	UTILITY	ECONOMY
32.	White Speck 2/3 of the volume	[]	[]	[]	[]
33.	Through Shake	[]	[]	[]	[]
34.	Full length wane, 3/4 thickness	[]	[]	[]	[]
35.	Decay 1/2 the cross section	[]	[]	[]	[]
36.	Knot 1 1/2" on the edge of face	[]	[]	[]	[]
37.	Split 1 - 1/2 times the width	[]	[]	[]	[]
38.	Wane completely across the wide face on the end	[]	[]	[]	[]
39.	Heavy warp	[]	[]	[]	[]
40.	Surface shake full length	[]	[]	[]	[]

Mark the **HIGHEST** grade of **Par. 124 Structural Light Framing and Joist & Planks** that allows the following in a **2 x 10-16** feet long:

	DEFECT	SEL STR	#1	#2	#3	NONE
41.	Wane 1/2 T x 1/2 W full length	[]	[]	[]	[]	[]
42.	Wane 1/2T x 1/2 W – 3/4 the length	[]	[]	[]	[]	[]
43.	Surface Shake full length	[]	[]	[]	[]	[]
44.	Slope of Grain 1 in 10	[]	[]	[]	[]	[]
45.	Shake through the edge (3 face)	[]	[]	[]	[]	[]
46.	Medium Warp	[]	[]	[]	[]	[]
47.	Skip 1/16 inch deep full length	[]	[]	[]	[]	[]
48.	Through Shake 2 feet long	[]	[]	[]	[]	[]
49.	Wane 1/3 T x 1/3 W full length	[]	[]	[]	[]	[]
50.	Wane 3/4T x 3/4W Maximum Equiv.	[]	[]	[]	[]	[]
51.	Decay	[]	[]	[]	[]	[]
52.	Edge Knot 4-1/4"	[]	[]	[]	[]	[]
53.	Split 15 inches of the piece	[]	[]	[]	[]	[]
54.	100% Blue Stain	[]	[]	[]	[]	[]
55.	Honey Comb 1/3 Volume	[]	[]	[]	[]	[]
56.	32 Grub Holes	[]	[]	[]	[]	[]

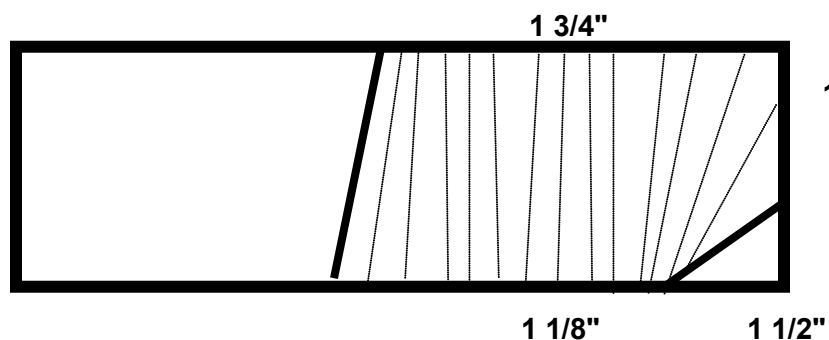
List the knot sizes for the following **KD-HT 2 x 4's**

57. List the knot size:



SIZE

58. List the knot size:

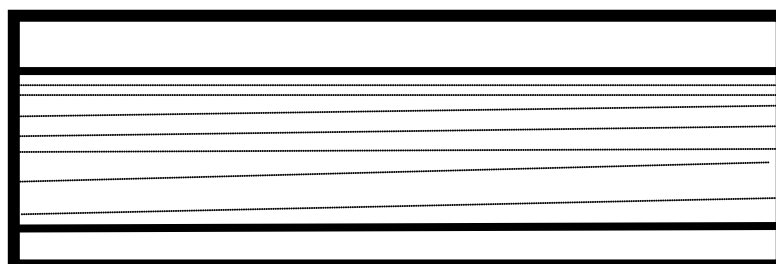


1"

SIZE

59. List the knot size

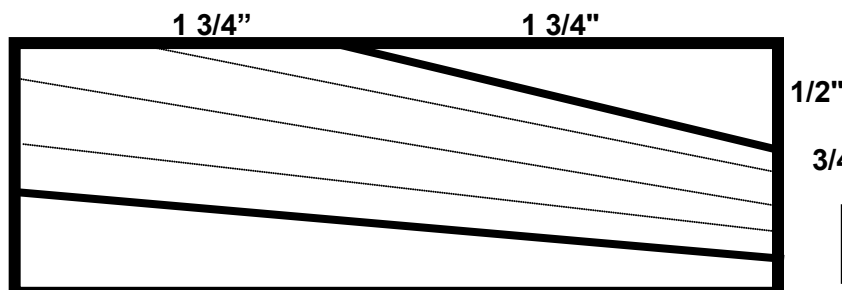
1"



1"

SIZE

60. List the knot size
1"



1/2"

3/4" SIZE