

Plumbing Lesson Five: Pipe Fittings and Parts

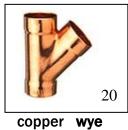
Student Handouts

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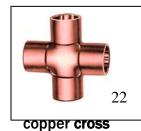


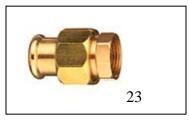


copper double elbow









copper union



copper female adapter



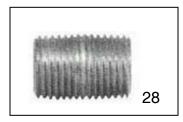
copper male adapter



galvanized steel 90°elbow



galvanized steel 45° elbow



galvanized steel nipple



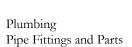
black iron reducing tee



black iron 90° street elbow



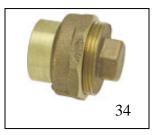
black iron plug





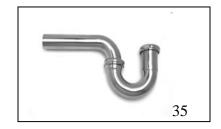
black iron floor flange





black iron hex **bushing**

cast iron clean out



chrome p-trap

Understanding Pipe Fittings: Names



	<u>Material</u>	Size or Special Shap	e <u>Fitting Name</u>
1.	PVC	90 degree	elbow
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			

	<u>Material</u>	Size or Special Shape	Fitting Name
17			
18			
19			
21			
22			
24			
25			
27			
28			
29			
30			
31		<u> </u>	
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bing Fittings and Part	s	Virginia Adult Learning Resource Cer	Understanding Pipe Fitting Names Ha nter Lesso

Understanding Pipe Fittings: Shapes and Sizes

Angles and Fractions

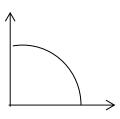
When a fitting has an angle or curve in it, its name will have a degree ($^{\circ}$) or a fraction ($^{1}/_{4}$) in it. The degree or fraction describes how big the curve is in the fitting.

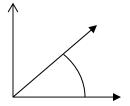
g



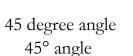


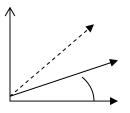
Degrees of Angles or Curves





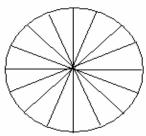
90 degree angle 90° angle





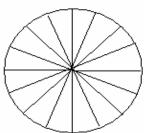
22 1/2 degree angle 22 ½° angle

Fractions



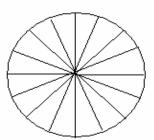
1/4 bend one quarter bend

Color 1/4 of the circle.



1/8 bend one eighth bend

Color 1/8 of the circle.



1/16 bend one sixteenth bend

Color 1/16 of the circle.

Plumbing Pipe Fittings and Parts Understanding Pipe Fittings: Shapes and Sizes Handout Virginia Adult Learning Resource Center Lesson Five Activity #3: Can You Hand Me A . . . ?



Conversation #1

A: Hey, _________,
B: Yeah? What do you need?
A: Can you hand me a 90° elbow?
B: Sure. Just a minute. (looks for fitting) Here you go. (gives fitting to partner)
A: Thanks a lot.
B: You're welcome.

Conversation #2

A: Maria?

B: Yes. What is it?

A: Can you **get** me a floor flange?

B: Let me see. (looks for fitting and gives it to his/her partner) Here it is.

A: Thanks a lot.

B: No problem.

	Activity #3: Can You Hand Me A ?			
Handout B				
Conversation #1	onversation #1			
	A: Hey,,			
	A: Hey,, B: Yeah? What do you need?			
	A: Can you hand me a 2 ¹ / ₂ inch tee?			
	B: Sure. Just a minute. (looks for fitting) I only found one. (gives fitting to partner)			
	A: That's all I need.			
	B: Here you go. Do you need anything else?			
	A: No, that's it for now. Thanks.			

Conversation #2

A:	Maria?
B:	Yes. What is it?
A:	Can you give me a few locknuts?
B:	How many?
A:	Three or four will be enough.
B:	Ok, let me look. (looks for fitting and gives it to partner) I found some. Hold out your hand.
A:	I got them. Thanks a lot.
B:	No problem.

	Activity #3: Can You Hand Me A ?					
Handout C						
Conversation #1	A: Hey,,					
	B: Yeah? What do you need?					
	A: Can you get me a 1/8 bend from the truck?					
	B: Let me see if we have any. I'll be right back. (looks for fitting in truck)					
	I'm back. Okay, do you want the 3-inch or the					
	3 1/2 inch 1/8 bend?					
	A: I'll take the 3-inch one.					
	B: Can you get it? (Can you reach it?)					
	A: Got it. I appreciate it.					
	B: Let me know if you need anything else.					
	A: Thanks.					
	B: You're welcome.					
Conversation #2						
	A:? Are you there?					
	B: Yes. What can I do for you?					
	A: Can you get me a copper double wye?					
	B: I'll look. Is it in the van?					
	A: I'm not sure.					
	B: Ok, let me look. (looks for fitting and show something to his/her					

partner)

I found a PVC double wye, but I didn't see a copper one.

- A: Okay. I'll need to go back to the shop.
- B: I'll go get it for you.
- A: Thanks, and bring me back a coke, too.
- B: You owe me.