Pipe Fittings and Parts

1. PVC 90° elbow
2. PVC 1/4 bend
3. PVC threaded coupling
4. CPVC tee
5. PVC double tee

6. PVC cross
7. PVC bushing
8. PVC union
9. CPVC male adapter
10. PVC clean out

11. ABS closet flange
12. ABS cap
13. ABS p-trap
14. ABS wye

15. Brass coupling
16. Brass cross
17. Brass floor flange
18. Brass bushing
copper double elbow

copper wye

copper double wye

copper cross

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

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<th>Material</th>
<th>Size or Special Shape</th>
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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 (°) or a fraction (¼) in it. The degree or fraction describes how big the curve is in the fitting.

Degrees of Angles or Curves

- 90 degree angle (90°)
- 45 degree angle (45°)
- 22 ½ degree angle (22 ½°)

Fractions

- 1/4 bend
- 1/8 bend
- 1/16 bend

Color 1/4 of the circle.
Color 1/8 of the circle.
Color 1/16 of the circle.
Activity #3: Can You Hand Me A . . . ?

Handout 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

A: Hey, ________________,

B: Yeah? What do you need?

A: Can you **hand** me a 2 ½ 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?

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.