Name:	Date:

Bridge Types & Forces Worksheet Answers

For each image below, identify the following:

- **Bridge type:** beam, arch, modern suspension or cable-stayed bridge
- Which members have compressive forces acting on them
- Which members have tensile forces acting on them



1. Bridge type:

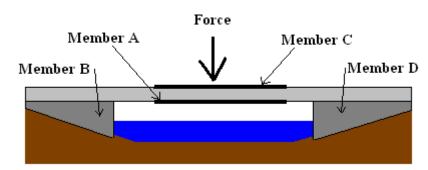
Compressive forces are located in members:

Tensile forces are located in members:

Beam bridge

B & D (piers), C (top of beam)

A (bottom of beam)



2. Bridge type:

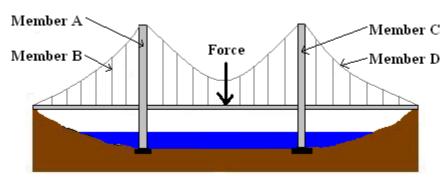
Compressive forces are located in members:

Tensile forces are located in members:

Modern suspension bridge

A & C (towers)

B & D (cables)



3. Type of Bridge:

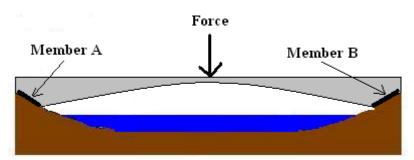
Compressive forces are located in members:

Tensile forces are located in members:

Arch bridge

A & B (abutments)

None



4. Type of Bridge:

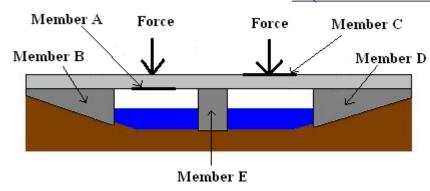
Compressive forces are located in members:

Tensile forces are located in members:

Beam bridge (2 spans)

B, D & E (piers), C (top of beam)

A (bottom of beam)



5. Type of Bridge:

Compressive forces are located in members:

Tensile forces are located in members:

Cable-stayed bridge

A & C (towers)

B & D (cables)

