

109. The beam shown is subjected to a uniform load and a moving concentrated load.

Design Data:

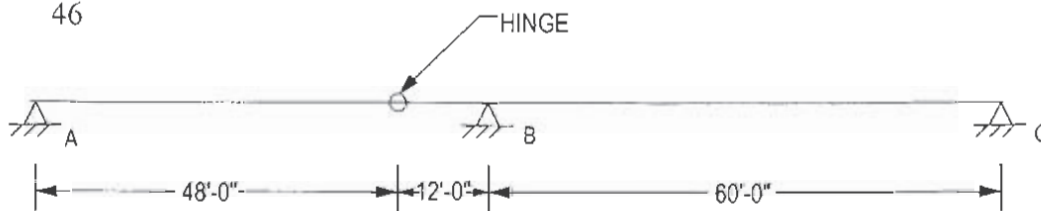
Uniform live load 1 kip/ft
Concentrated live load 10 kips

Assumption:

The uniform live load may extend the entire length of the beam from A to C.

The maximum live load shear (kips) on the right of Support B is most nearly:

- (A) 32
(B) 36
(C) 40
(D) 46



110. The figure shows a line diagram for a continuous beam that is supported as shown. The distribution factors at Joint B for Spans BA and BC are most nearly:

- | | <u>BA</u> | <u>BC</u> |
|-----|-----------|-----------|
| (A) | 0.33 | 0.67 |
| (B) | 0.43 | 0.57 |
| (C) | 0.5 | 0.5 |
| (D) | 0.67 | 0.33 |

