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1. Print these pages.
2. Circle the correct answers.
3. Download SPS 321
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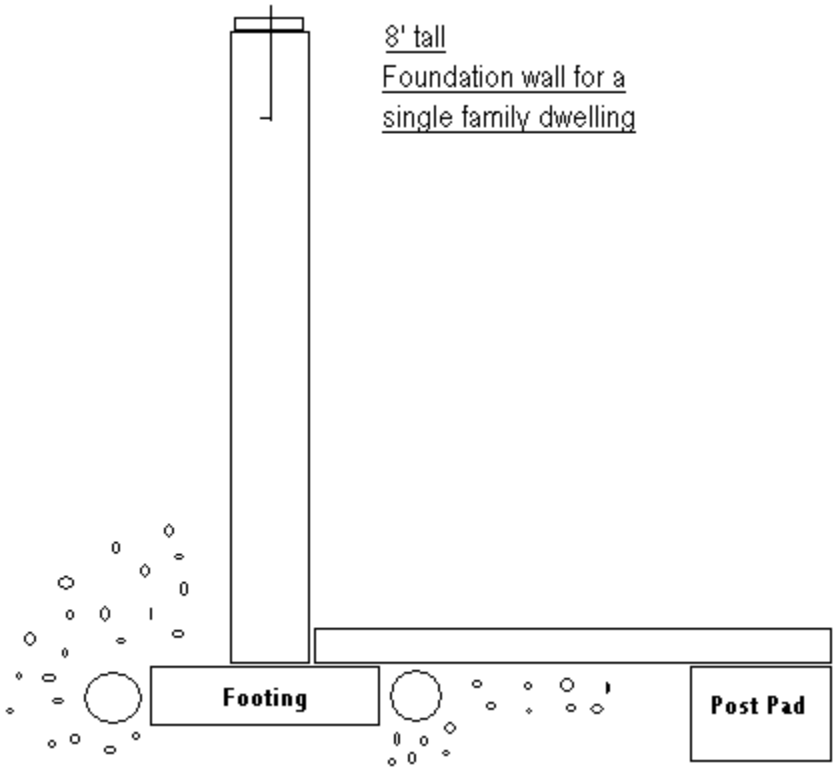
This 2 hour course is approved for: Fee: $20

1. Dwelling Contractor Qualifier Certification.
2. UDC Construction Inspector.

Testconst60



Use above diagram for questions 1-15

SPS 321.18

1. What is the minimum size diameter anchor bolt for this application?
   a) 1/4”
   b) 3/8”
   c) 1/2”
   d) 7/16”
2. What is the minimum spacing for the anchor bolts in the above foundation?
   a) 70”
   b) 60”
   c) 72”

d) 66”

3. A properly sized nut and washer shall be tightened on each anchor bolt to the _____
   a) plate
   b) sill
   c) floor
   d) only a & b
4. Assuming the foundation wall is a poured concrete wall. What is the maximum height of the unbalanced fill for an 8” nominal thickness wall being supported?
   a) 7’
   b) 7’6”
   c) 8’
   d) 7’8”
5. Assuming the foundation wall is a poured concrete wall. What is the maximum height of the unbalanced fill for a 10” nominal thickness wall being supported?
   a) 8’
   b) 8’5”
   c) 8’8”
   d) 9’
6. What is the minimum thickness of the above concrete foundation wall if the fill on one side of the wall is greater than 12” vertically of the fill on the other side of the wall?
   a) 6”
   b) 7”
   c) 8”
   d) 10”
7. What is the minimum thickness of the above concrete foundation wall if the fill on one side of the wall is within 12” vertically of the fill on the other side of the wall?
   a) 6”
   b) 7”
   c) 8”
   d) 10”
8. If a 2” x 10” stud wall construction is directly above this concrete foundation what would be the minimum concrete wall thickness?
   a) 6”
   b) 7”
   c) 8”
   d) 10”

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9. If a 2” x 10” wall construction is directly above this concrete foundation what would be the minimum footing size?
   a) 16” x 8”
   b) 18” x 8”
   c) 20” x 8”
   d) 24” x 8”
10. The minimum width and length for the above post pad shall measure at least _____?
   a) 20” x 20” x. 8”
   b) 24” x 24” x 8”
   c) 24” x 24” x 12”
   d) 20” x 20” x. 8”

11. Assume the above footing is bearing on dense sand and gravel. What would the soil bearing value be directly below the footing?
    a) 2000 PSF
    b) 3000 PSF
    c) 4000 PSF
    d) 6000 PSF
12. Assuming the above column pad is 30" x 30" and bearing on wet soft clay. What would the maximum bearing value be for this post pad?
    a) 18,750 lbs
    b) 25,000 lbs
    c) 12,000 lbs
    d) 12,500 lbs

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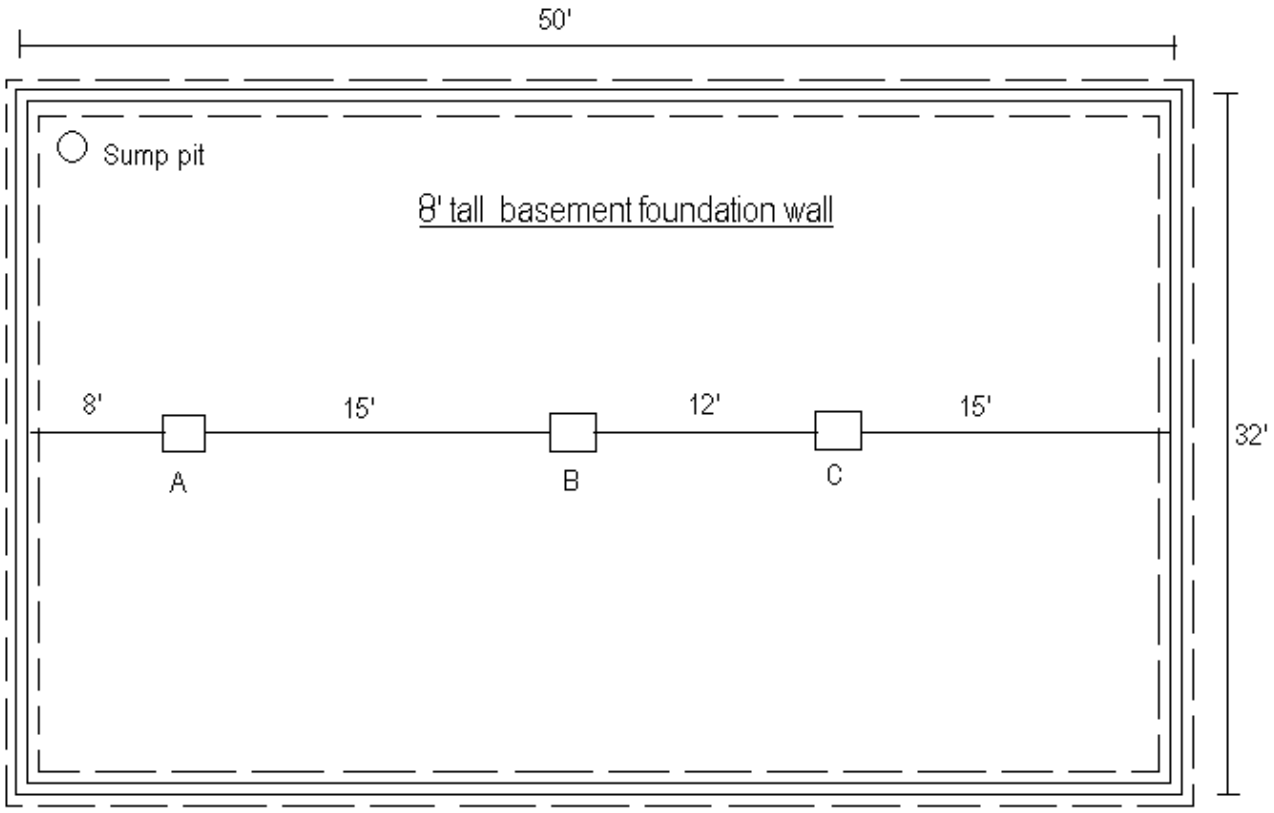
13. The minimum size interior drain tile for the above drawing would be?
    a) 2"
    b) 3"
    c) 4"
    d) a, b & c
14. The tile or pipe shall be placed upon at least ___inches of coarse aggregate and shall be covered on the top and the side facing away from the dwelling with a least ___ inches of coarse aggregate.
    a) 2", 12"
    b) 3", 12"
    c) 4", 12
    d) 6", 12"
15. This basement slab shall be placed on at least ___ inches of clean graded sand, gravel or crushed stone.
    a) 3"
    b) 4"
    c) 2"
    d) none of the above



Use above diagram for questions 16-30

SPS 321.22

16. Minimum size of a built up wood beam for the 8’ span above supporting one floor only with the FB=1400 PSI would be _____ nominal?
    a) none of the below
    b) 4-2” x 8”
    c) 4-2” x10”
    d) 3-2” x 8”
17. Minimum size wood beam for the 12’ span above supporting roof/ceiling + one floor/ceiling + one floor would be _____ nominal in zone 2?
    a) none of the below
    b) 14” x 16”
    c) 12” x 16”
    d) 12” x 14”
18. Minimum size wood beam for the 15’ span above supporting roof/ceiling and one floor only would be _____ nominal in zone 1?
    a) none of the below
    b) 12” x 18”
    c) 14” x 16”
    d) 12” x 16”
19. Minimum size steel beam for the 15’ span above supporting roof/ceiling and one floor only would be _____ in zone 2?
    a) W 8x24
    b) W 12x14
    c) M 14x18

d) both a & c

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20. Using the foundation plan above what would the minimum amount of bleeder tiles be?
    a) 16
    b) 18
    c) 20
    d) 22
21. All the drain tiles that lead from the footing tiles to the sump pit shall be laid at a grade of at least 1/8 inch per foot leading to the sump pit.
    a) true
    b) false
22. Using the information from question 21 and above diagram, how many inches should the drain tiles be pitched from the highest point upstream to the sump pit.
    a) 1/8" per foot leading to the sump pit
    b) both a & d
    c) 3.25" total pitch
    d) level or downward
23. The above sump shall have a rim extending at least _____ inch above the floor immediately adjacent to the sump.
    a) 1/2"
    b) 3/4"
    c) 1"
    d) 2"

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24. The minimum amount of anchor bolts required for this foundation would be?
    a) 24
    b) 27
    c) 28
    d) 34

25. This above house construction has 2" x 4" exterior walls with no brick veneer. What is the minimum concrete wall thickness for this basement foundation?
    a) 6"
    b) 8"
    c) 10"
    d) 12"
26. If a concrete floor is provided to the above foundation, the thickness of the concrete floor shall measure at least ____ inches.
    a) 2"
    b) 3"
    c) 4"
    d) 5"

27. This above house construction has 2" x 4" exterior walls with 4" brick veneer on 4 sides. What is the minimum concrete wall thickness for this foundation?

a) 6”
b) 8”
c) 10”
d) 12”

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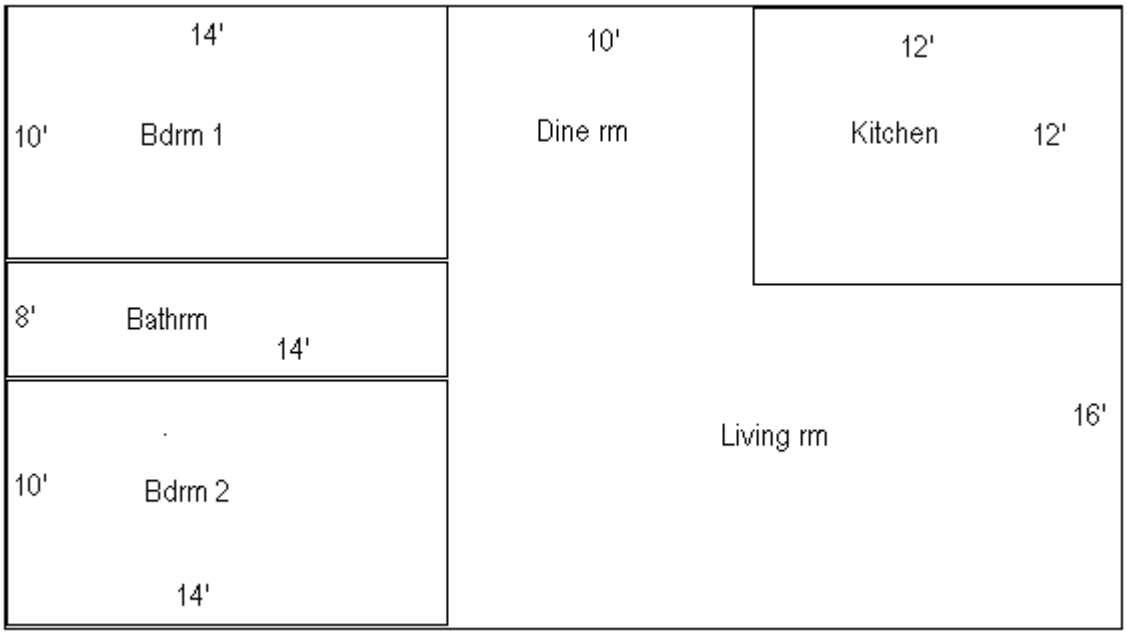
28. The tributary load for column pad B using 40 psf live load and 9 psf for dead load would be?
    a) 9,998
    b) 10,584
    c) 8,640
    d) 21,168
29. Using the tributary load from question #28 which column post would meet code?
    a) post rated for 10,000 lbs
    b) post rated for 9,000 lbs
    c) post rated for 12,500 lbs
    d) post rated for 8,500 lbs

SPS 321.16

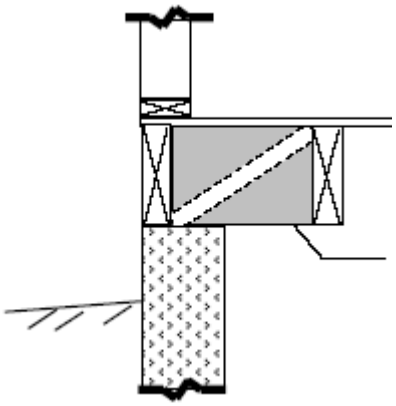
30. Use the tributary load from question #28 and soil conditions for loose fine sand. What would the required minimum size post pad be for this load?
    a) 2’ x 2’
    b) 2’ 4” x 2’ 4”
    c) 2’6” x 2’6”
    d) 2’3” x 2’3”



Use above diagram for questions 31-34

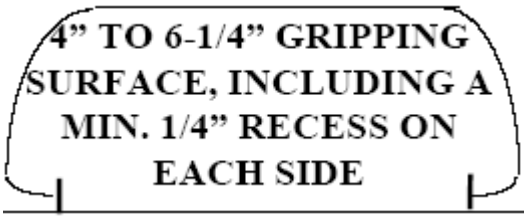
SPS 321.05

31. Bedroom 1, the minimum glazing requirement for this room is ____ sq-ft?
    a) 11
    b) 11.2
    c) 10.6
    d) 8.8
32. Living room, the minimum glazing for this room is _____ sq-ft?
    a) 22.5
    b) 18.8
    c) 25.6
    d) 28.16
33. Bedroom 1, the minimum natural ventilation for this room is _____ sq-ft?
    a) 3.5
    b) 4.1
    c) 4.9
    d) 5.8
34. Living room, the minimum natural ventilation for this room is ____ sq-ft?
    a) 10.62
    b) 11.57
    c) 12.32
    d) 15.55

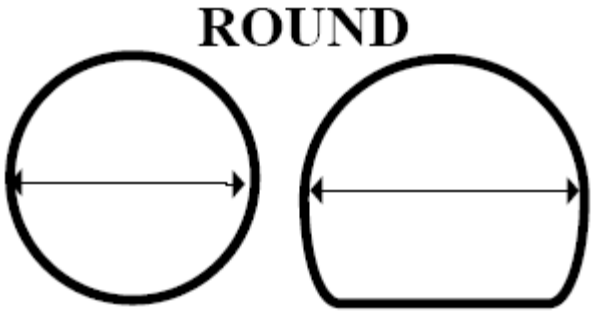


35. Using the diagram above. Where the floor framing is parallel to the foundation wall, solid blocking or bridging shall be installed in at least the first adjacent joist space at a spacing of no more than _____ inches on center.
    a) 24”
    b) 30”
    c) 32”
    d) 48”

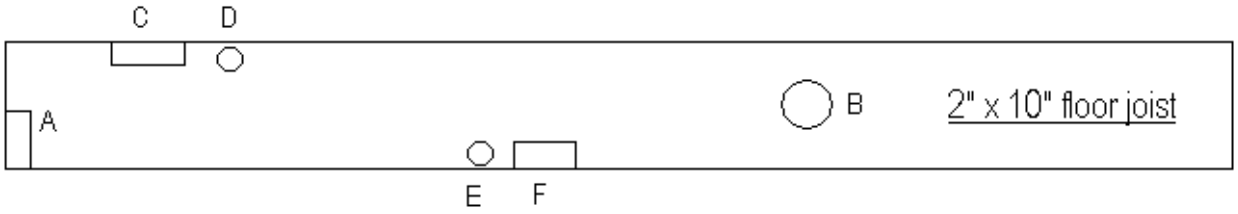
/---------- 2 15/16”----------/



36. Is the handrail above a legal handrail?
    a) yes
    b) no



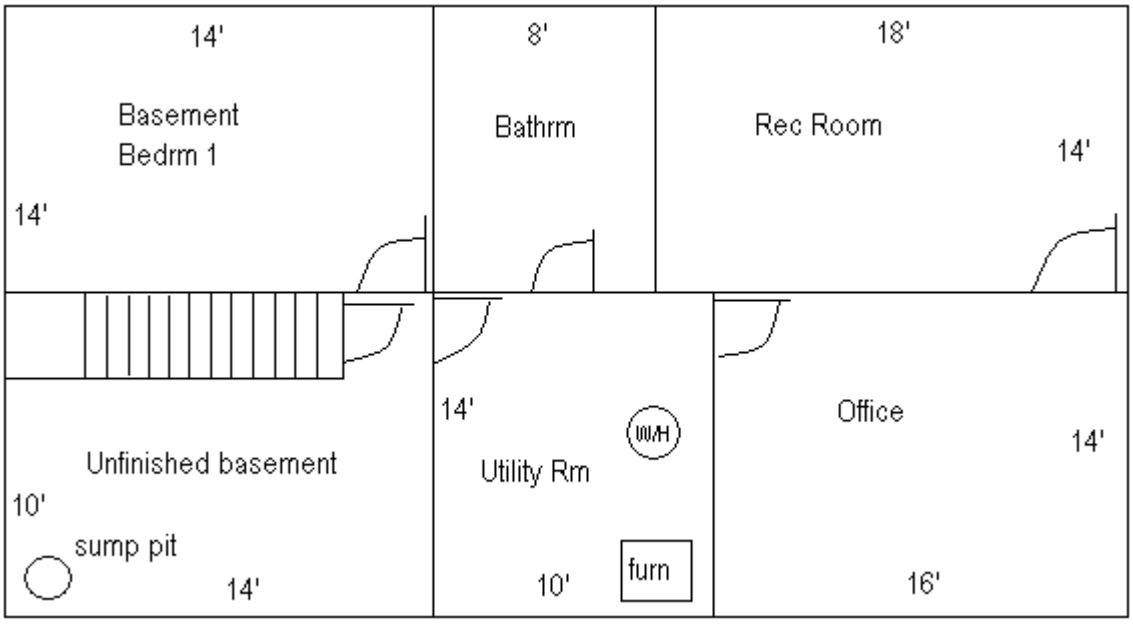
37. What is the maximum diameter for the above handrail?
    a) 1 1/2”
    b) 1 3/4”
    c) 2”
    d) 2 7/8”



Use above diagram for questions 38-41

SPS 321.22

38. What is the maximum height of notch A?
    a) 1 3/8”
    b) 1 7/8”
    c) 2 3/8”
    d) 2 7/8”
39. What is the minimum distance between notch C and hole D?
    a) diameter of hole
    b) 3”
    c) 2”
    d) 2 x the diameter of hole
40. What is the maximum hole diameter for hole B?
    a) 2 3/8”
    b) 3”
    c) 3 3/4”
    d) 3 1/8”
41. What is the minimum distance between notch F and hole E?
    a) diameter of hole
    b) 3”
    c) 2”
    d) none of the above



Use the above basement diagram for questions 42-53

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42. What is the minimum required natural light for the Rec room area?
    a) none required
    b) 8.82 sq-ft
    c) may be obtained from office.
    d) none of the above.
43. What is the minimum required natural ventilation for the Rec room area?
    a) 6.82 sq-ft
    b) 20.16 sq-ft
    c) 7.84 sq-ft
    d) mechanical ventilation
44. What is the required natural light for the Bedroom area?
    a) 14.22 sq-ft
    b) 15.68 sq-ft
    c) 6.86 sq-ft
    d) none of the above
45. What is the minimum required natural ventilation for the Bedroom area?
    a) 14.22 sq-ft
    b) 15.68 sq-ft
    c) 6.86 sq-ft
    d) none of the above
46. What is the required natural light for the Office area?
    a) none required
    b) 17.92 sq-ft
    c) may be obtained from Rec room.
    d) none of the above.

47. What is the minimum required natural ventilation for the Office room area?
    a) 6.82 sq-ft
    b) 20.16 sq-ft
    c) 9.84 sq-ft
    d) mechanical ventilation

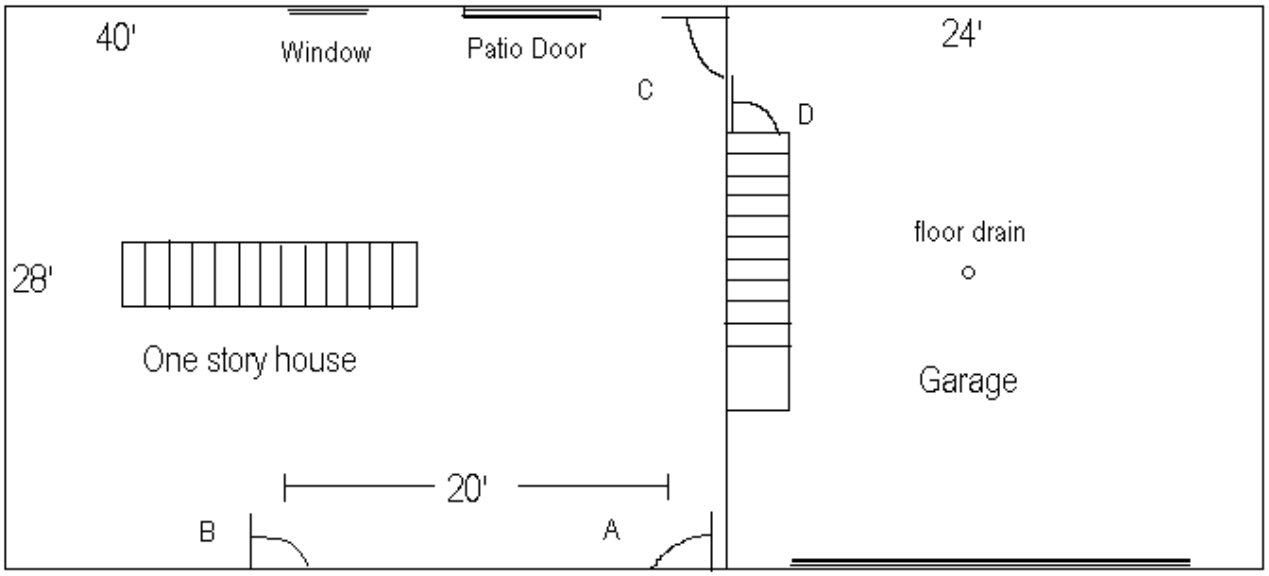
SPS 321.03

48. What requirements must the Rec room egress window comply with?
    a) 20” x 24” opening irrespective of height or width.
    b) Lowest part of clear opening is less than 46” above the floor.
    c) both a & b
    d) none of the above
49. What requirements must the Bedroom egress window comply with?
    a) 20” x 24” opening irrespective of height or width.
    b) Lowest part of clear opening is less than 46” above the floor.
    c) both a & b

d) none of the above

50. If the bedroom window clear opening is more than 46" above the floor a _____ may be added to comply with this code.
    a) permanent platform
    b) permanent fixture
    c) both a & b
    d) temporary step
51. If a second code compliant stairs was installed on the opposite side of this basement from the existing stairs, would an egress window be required for any of the rooms in the above diagram?
    a) yes
    b) no
52. The door at the bottom of the steps is allowed to have a locking handle keyed from both sides.
    a) true
    b) false
53. All the doors in this diagram are allowed to be 30".

    a) true
    b) false



Use above diagram for questions 54-57

SPS 321.03

54. Assuming the stairs leading up to the garage from the basement (door D) is the second egress for a bedroom in the basement. Does this qualify as a second exit?
    a) yes
    b) no
55. If the patio door did not meet the required width for the second egress and door B was removed. Would the garage door exit qualify for the second exit?

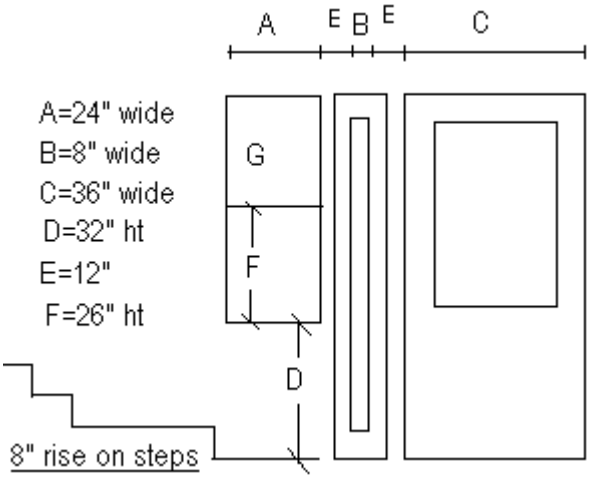
    a) yes
    b) no

56. Assuming the patio door and the garage door (C) didn't meet the required egress width and the window met the legal egress size. Would this qualify as the second exit?

    a) yes
    b) no

57. Assuming the two front doors (doors A & B) met the required egress width and the patio door and garage door (C) didn't meet the required egress width for the second exit. Does this meet the egress requirements?

    a) yes
    b) no



Use above diagram for question 58-60

SPS 321.05

58. Glazing in side lite B must be safety glass.
    a) true
    b) false
59. The window with F marked on the lower sash must be safety glass.
    a) true
    b) false
60. The window with G marked on the upper sash must be safety glass.
    a) true
    b) false

Testconst60

1	a	b	c	d	21	a	b	c	d	41	a	b	c	d
2	a	b	c	d	22	a	b	c	d	42	a	b	c	d
3	a	b	c	d	23	a	b	c	d	43	a	b	c	d
4	a	b	c	d	24	a	b	c	d	44	a	b	c	d
5	a	b	c	d	25	a	b	c	d	45	a	b	c	d
6	a	b	c	d	26	a	b	c	d	46	a	b	c	d
7	a	b	c	d	27	a	b	c	d	47	a	b	c	d
8	a	b	c	d	28	a	b	c	d	48	a	b	c	d
9	a	b	c	d	29	a	b	c	d	49	a	b	c	d
10	a	b	c	d	30	a	b	c	d	50	a	b	c	d
11	a	b	c	d	31	a	b	c	d	51	a	b	c	d
12	a	b	c	d	32	a	b	c	d	52	a	b	c	d
13	a	b	c	d	33	a	b	c	d	53	a	b	c	d
14	a	b	c	d	34	a	b	c	d	54	a	b	c	d
15	a	b	c	d	35	a	b	c	d	55	a	b	c	d
16	a	b	c	d	36	a	b	c	d	56	a	b	c	d
17	a	b	c	d	37	a	b	c	d	57	a	b	c	d
18	a	b	c	d	38	a	b	c	d	58	a	b	c	d
19	a	b	c	d	39	a	b	c	d	59	a	b	c	d
20	a	b	c	d	40	a	b	c	d	60	a	b	c	d

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