



Assignment 1: Measurements & Scale Worksheets

INSTRUCTIONS:

Complete the following **14** pages of:

- Converting feet to inches
- Reading a tape measure
- Distance in full size scale
- Scale measurements
- Dimensional measurements on a floor plan

GRADING:

100 points

- Completion of ALL pages
- Correct calculations
- Printed out and submitted by due date

Name : _____

Score : _____

Teacher : _____

Date : _____

1

Converting Feet and Inches

Convert to Inches.

1) 13 feet 6 inches _____

5) 15 feet 3 inches _____

2) 15 feet 8 inches _____

6) 5 feet 9 inches _____

3) 10 feet 6 inches _____

7) 11 feet 3 inches _____

4) 4 feet 5 inches _____

8) 15 feet 11 inches _____

Convert to Feet and Inches.

9) _____

50 inches

13) _____

119 inches

10) _____

97 inches

14) _____

189 inches

11) _____

33 inches

15) _____

90 inches

12) _____

21 inches

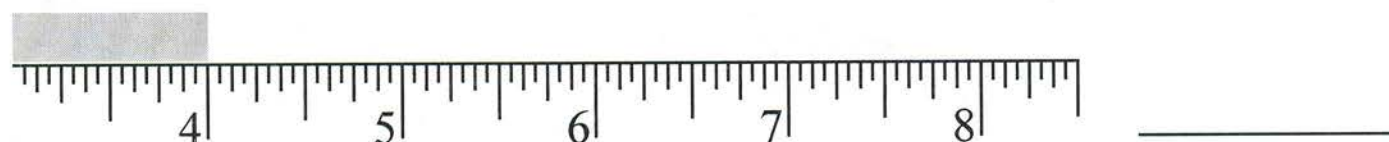
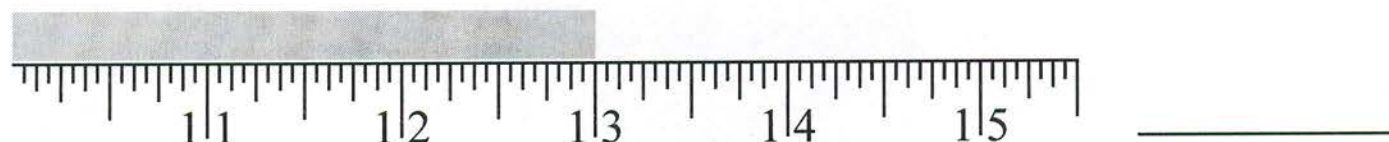
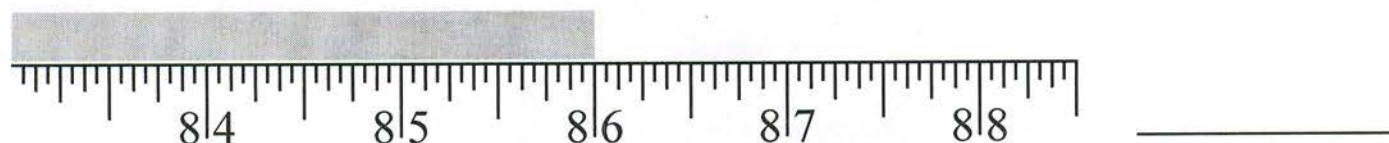
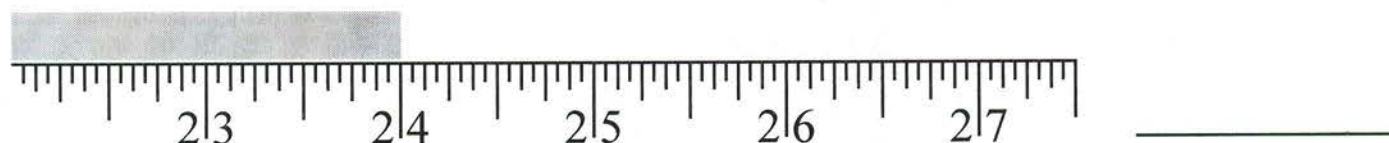
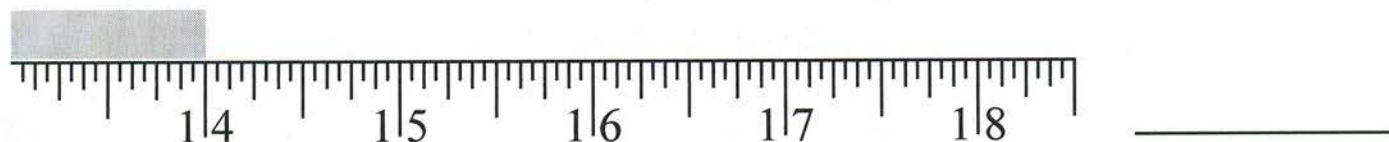
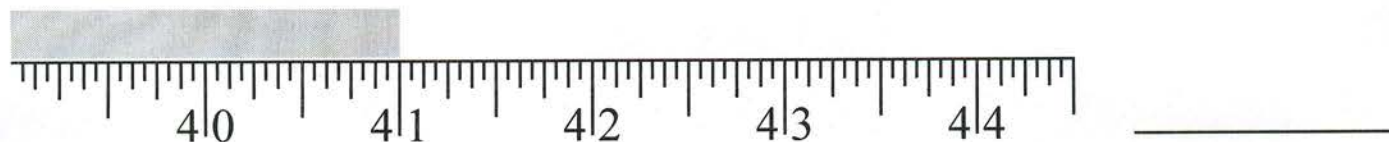
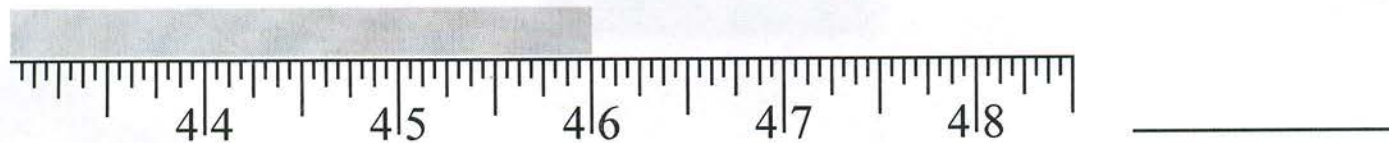
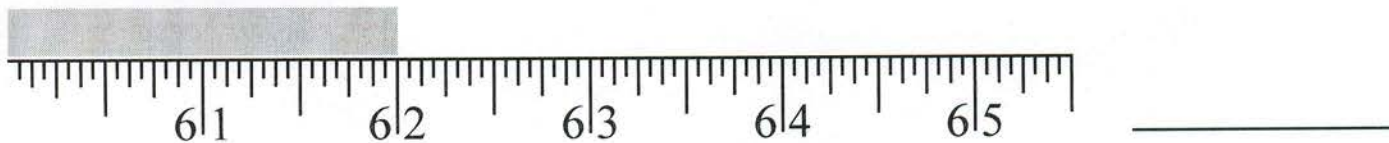
16) _____

76 inches

Name _____ Date _____

2

Read the measurement and state answer in FEET and INCHES



NAME: _____

How many inches are in 1 foot?

How many feet are in 1 yard?

1a. **89 in** = _____ **ft** _____ **in**

1b. **10 ft** = _____ **yd** _____ **ft**

2a. **1 ft 4 in** = _____ **in**

2b. **28 in** = _____ **ft** _____ **in**

3a. **1 yd 1 ft** = _____ **ft**

3b. **31 ft** = _____ **yd** _____ **ft**

4a. **2 ft 2 in** = _____ **in**

4b. **2 ft 7 in** = _____ **in**

5a. **8 yd 1 ft** = _____ **ft**

5b. **2 yd** = _____ **ft**

6a. **5 yd 2 ft** = _____ **ft**

6b. **41 in** = _____ **ft** _____ **in**

7a. **9 ft 1 in** = _____ **in**

7b. **11 ft** = _____ **yd** _____ **ft**

8a. **5 ft 5 in** = _____ **in**

8b. **2 ft 5 in** = _____ **in**

9a. **48 in** = _____ **ft** _____ **in**

9b. **11 yd** = _____ **ft**

10a. **8 ft 10 in** = _____ **in**

10b. **15 ft** = _____ **yd** _____ **ft**

Name : _____

Score : _____

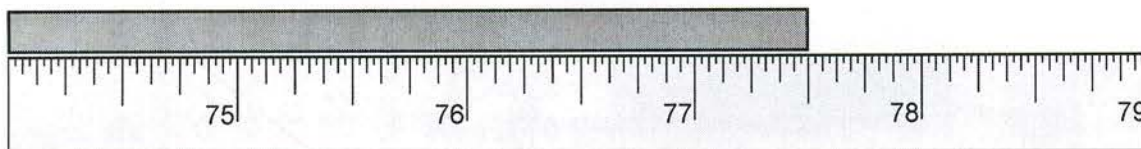
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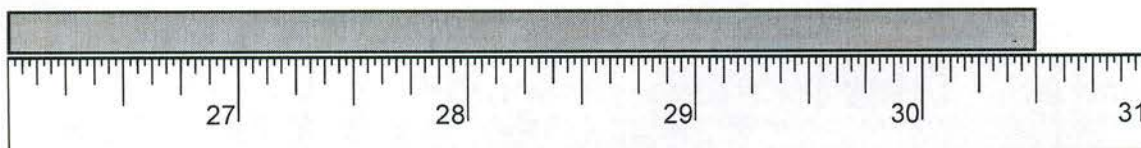
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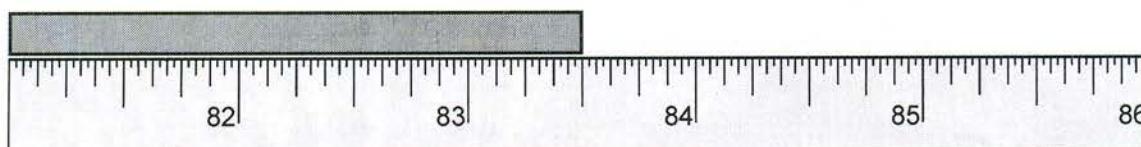
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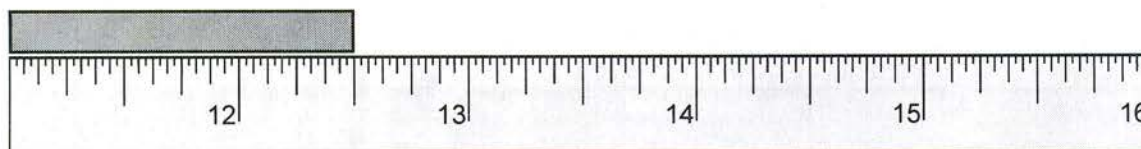
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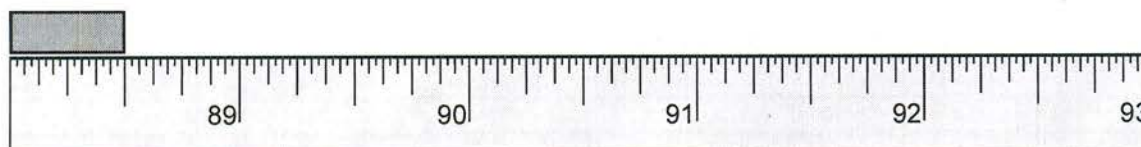
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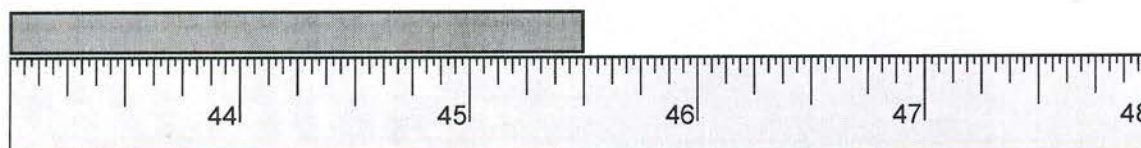


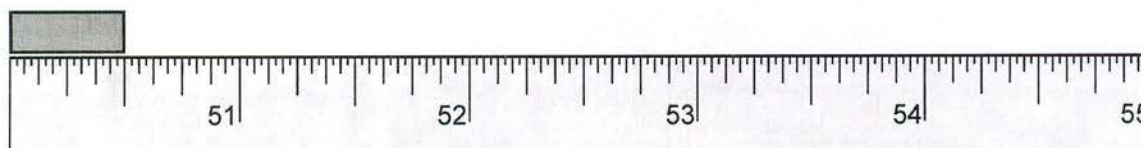


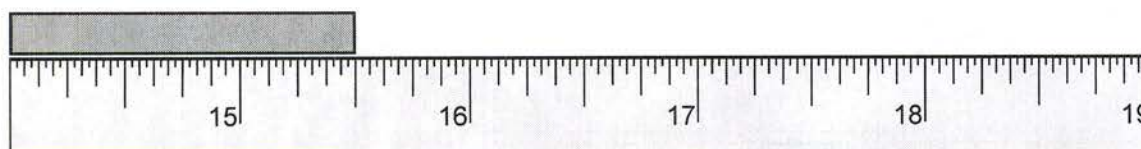












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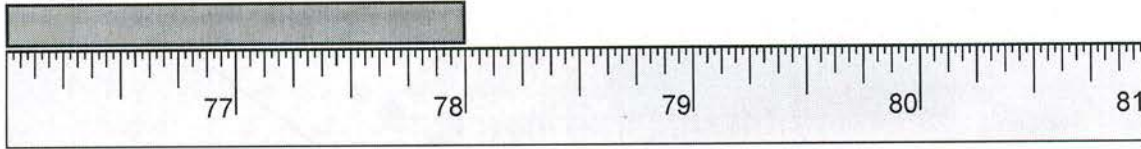
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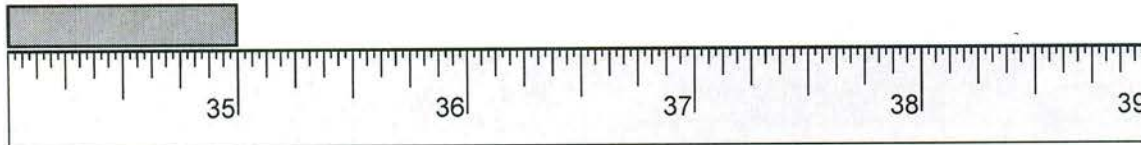
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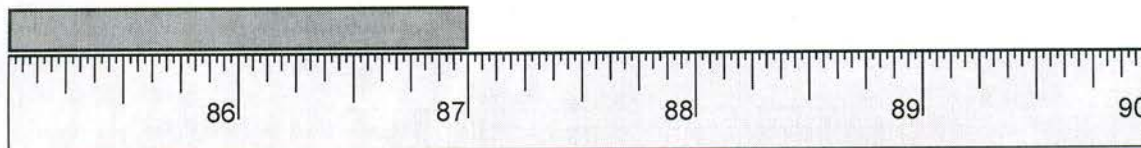
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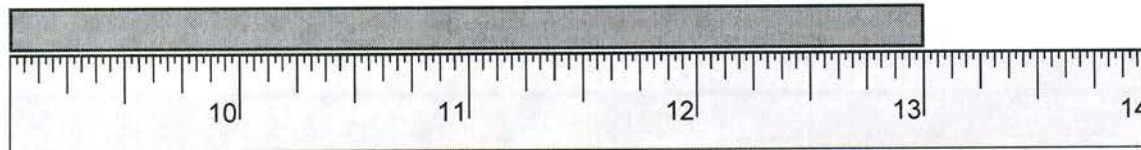
Reading a Tape Measure

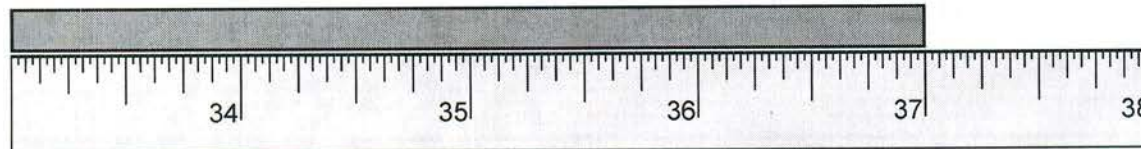
How many Inches ?

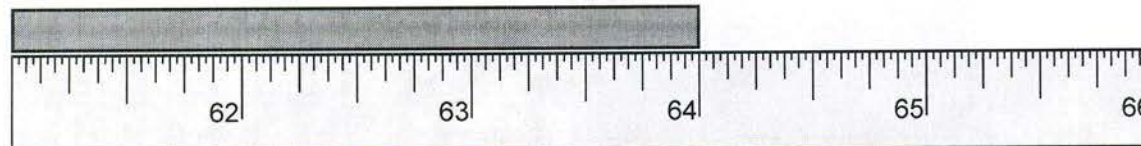


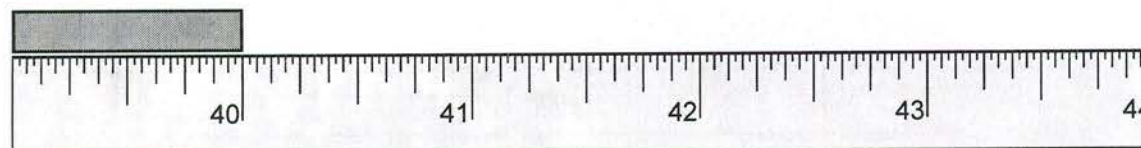


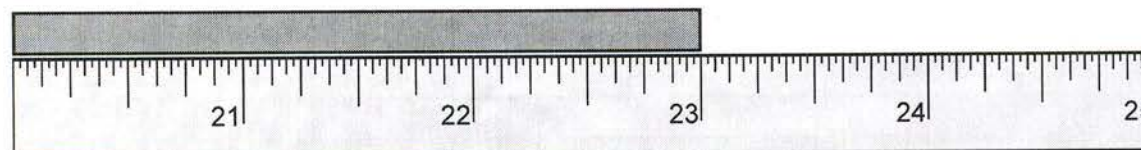












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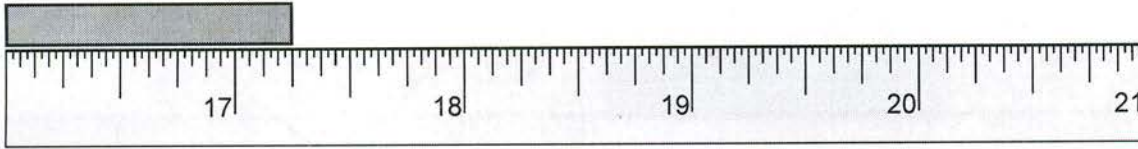
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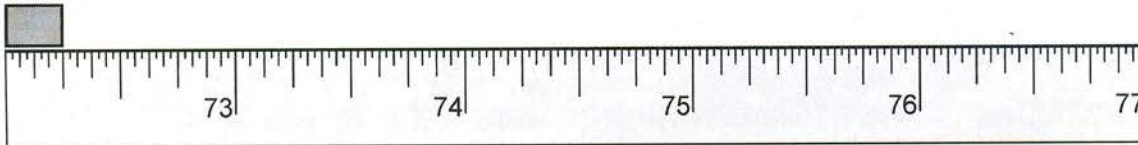
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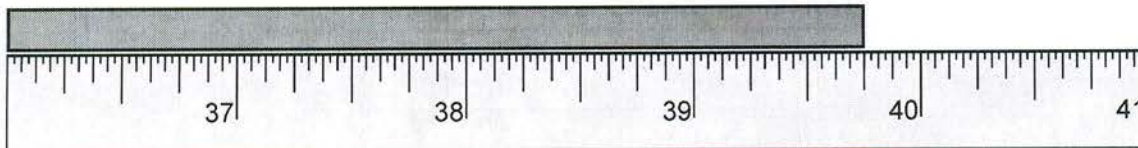
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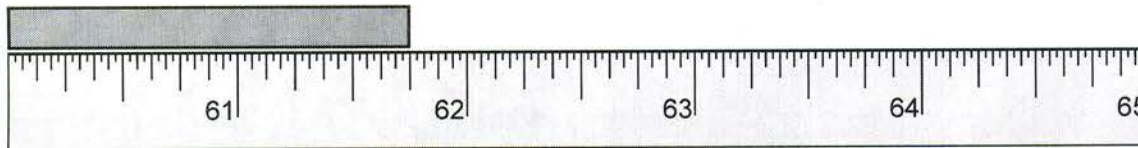
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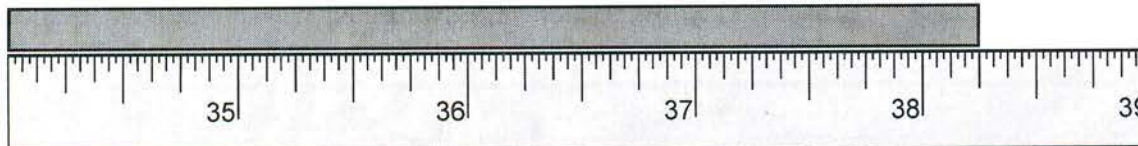
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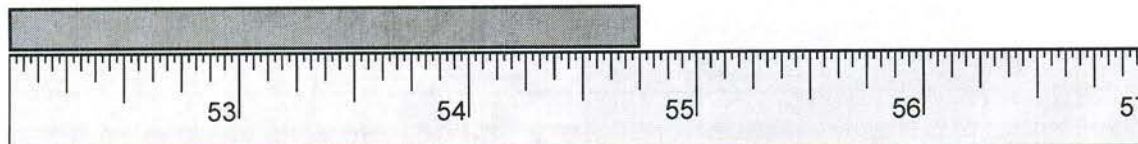


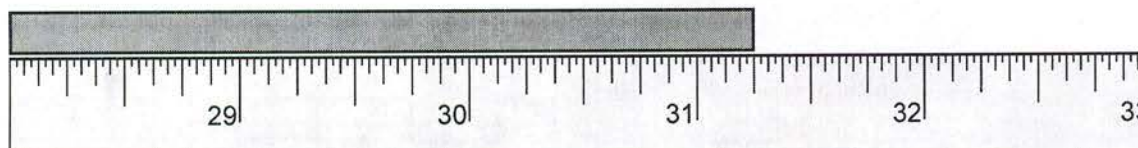


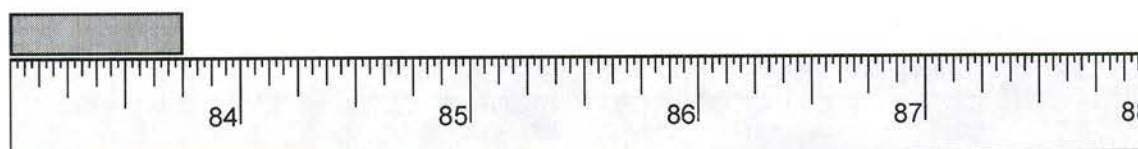












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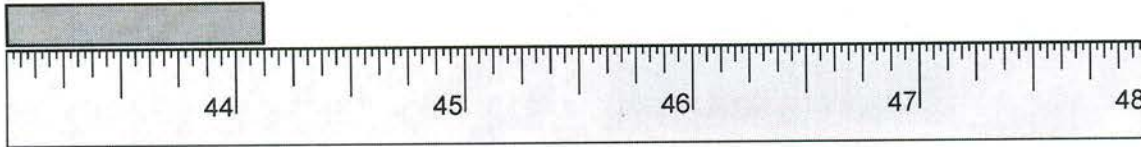
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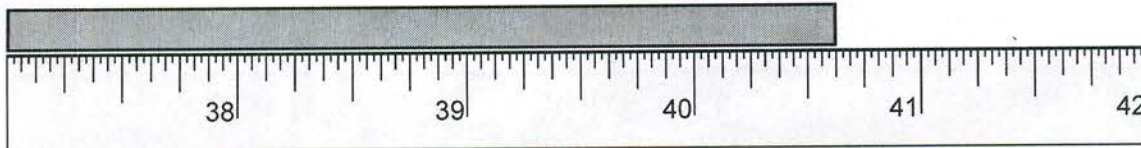
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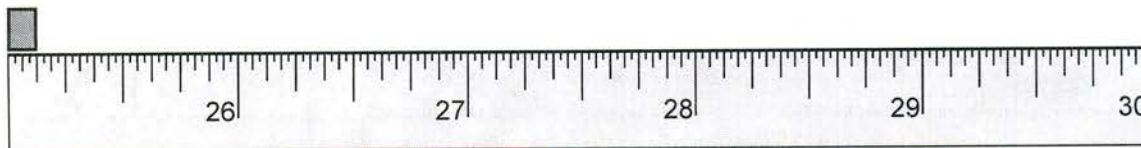
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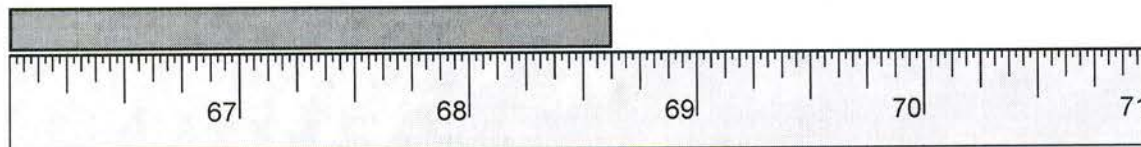
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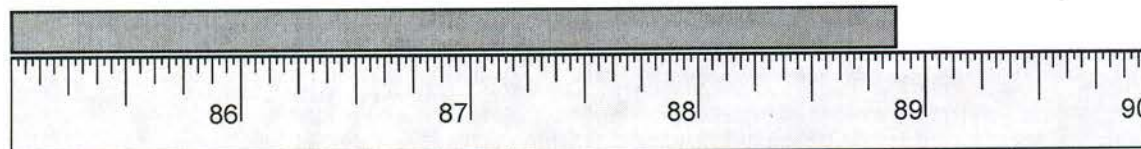
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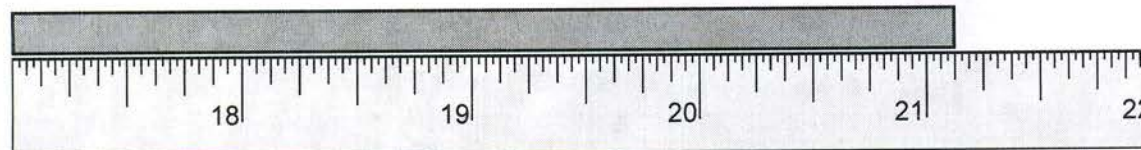


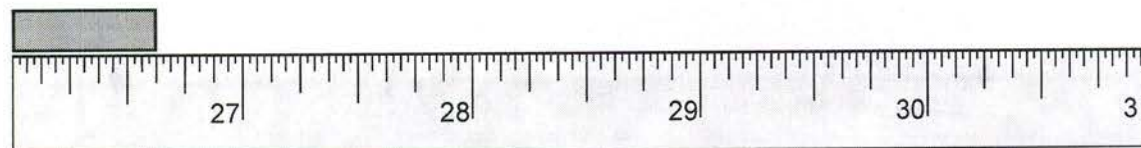


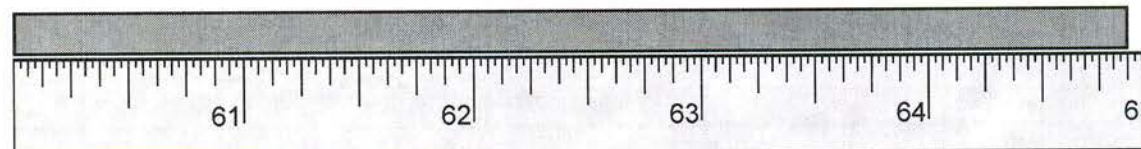












Name : _____

Score : _____

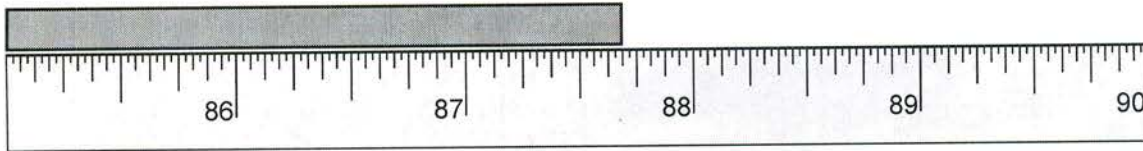
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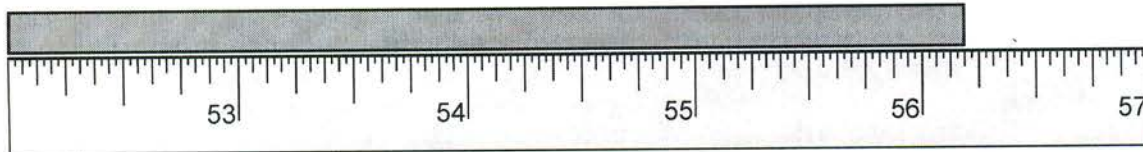
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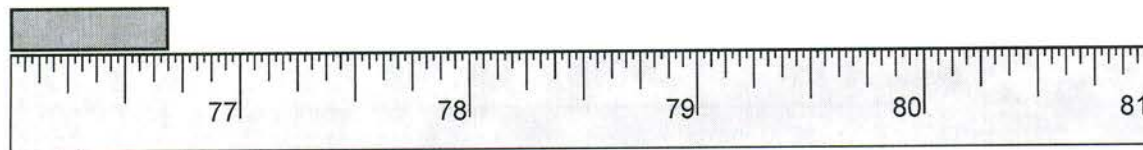
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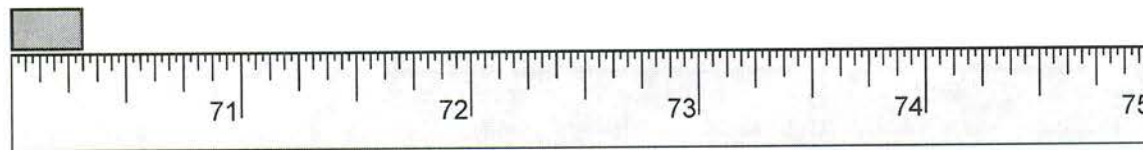
Reading a Tape Measure

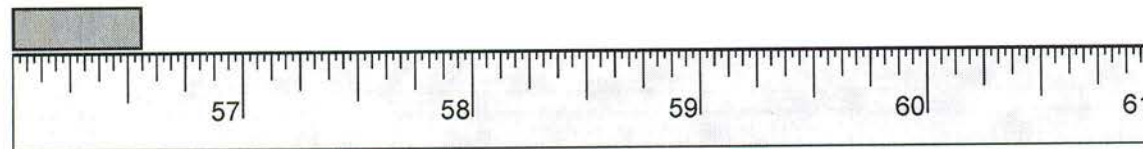
How many Inches ?

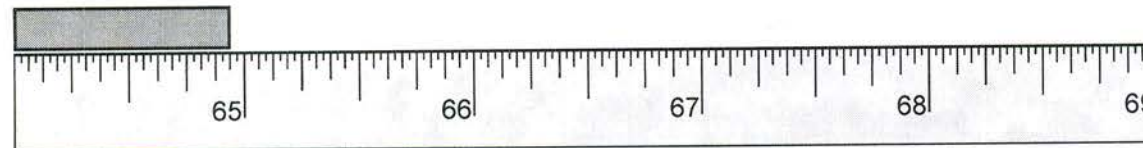


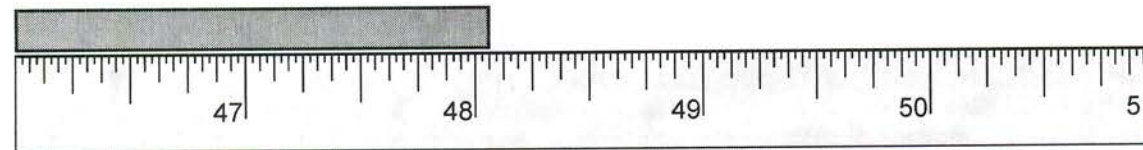


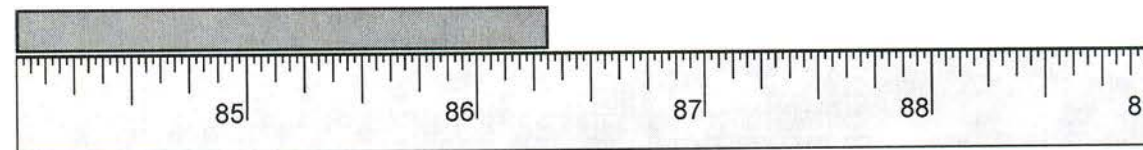






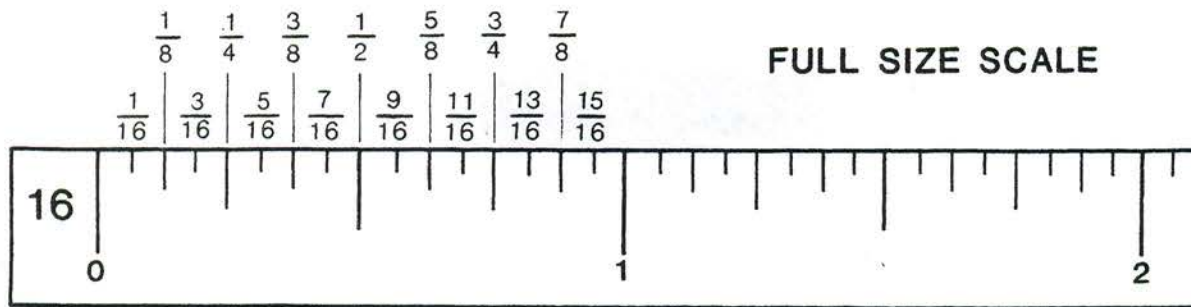






EXERCISE 3-9

Mark the distance shown for each line using a full size scale. Scale illustration is not actual size. Use an actual scale to measure the lines below.



distance

6"	1	
2"	2	
4"	3	
1 1/2"	4	
4 7/8"	5	
4 1/2"	6	
1 3/8"	7	
5 1/8"	8	
4 5/16"	9	
2 1/16"	10	
3 5/8"	11	
2 3/16"	12	
1 11/16"	13	
1 1/32"	14	
5 9/16"	15	
1 15/16"	16	
2 3/32"	17	
5 7/16"	18	
5 5/32"	19	
3 7/32"	20	
5 15/16"	21	
2 15/32"	22	
4 21/32"	23	
2 13/16"	24	
2 9/16"	25	
5 9/32"	26	
1 29/32"	27	
3 3/16"	28	
2 15/16"	29	
4 25/32"	30	

TITLE	DRAFTER	SCALE	DATE	DWG NO.

EXERCISE 3-2

Different scales are listed below. Following each scale is a distance in feet and inches. Using the scale indicated, measure and mark each distance on the line to the right.

1. $1/4'' = 1'-0''$	20'-0"	_____
2. $1/4'' = 1'-0''$	21'-0"	_____
3. $1/4'' = 1'-0''$	11'-6"	_____
4. $1/4'' = 1'-0''$	15'-6"	_____
5. $1/4'' = 1'-0''$	8'-9"	_____
6. $1/4'' = 1'-0''$	7'-3"	_____
7. $1/4'' = 1'-0''$	10'-1"	_____
8. $1/8'' = 1'-0''$	40'-11"	_____
9. $1/8'' = 1'-0''$	25'-0"	_____
10. $1/8'' = 1'-0''$	12'-6"	_____
11. $1'' = 1'-0''$	3'-5"	_____
12. $1'' = 1'-0''$	4'-9 1/2"	_____
13. $1/2'' = 1'-0''$	9'-6"	_____
14. $1/2'' = 1'-0''$	5'-2"	_____
15. $1/2'' = 1'-0''$	7'-11"	_____
16. $1/2'' = 1'-0''$	6'-5"	_____
17. $3/4'' = 1'-0''$	5'-10 1/2"	_____
18. $3/8'' = 1'-0''$	12'-11"	_____
19. $3/8'' = 1'-0''$	6'-2"	_____
20. $3/16'' = 1'-0''$	27'-10"	_____
21. $3/16'' = 1'-0''$	15'-2"	_____
22. $3/32'' = 1'-0''$	50'-0"	_____
23. $3/32'' = 1'-0''$	42'-8"	_____
24. $1\ 1/2'' = 1'-0''$	2'-3 1/2"	_____
25. $1\ 1/2'' = 1'-0''$	1'-9 1/4"	_____

TITLE	DRAFTER	SCALE	DATE	DWG NO.

EXERCISE 3-6

Multiple-choice questions: Select the correct answers and write the letter in the space at the right.

1. Standard scales use: 1. _____
 - a. miles
 - b. inches and their divisions
 - c. centimeters and millimeters
 - d. kilometers
2. Metric scales use: 2. _____
 - a. miles
 - b. inches and their divisions
 - c. centimeters and millimeters
 - d. kilometers
3. Construction details use: 3. _____
 - a. plot plans
 - b. small scale
 - c. large scale
 - d. metric scales only
4. Plot plans use: 4. _____
 - a. small scale
 - b. larger dimensions
 - c. letters
 - d. variables

Measure the length of each line to the closest inch on the scale. Use a scale of $1/8" = 1'-0"$

- | | |
|-----------|-----------|
| 1. _____ | 1. _____ |
| 2. _____ | 2. _____ |
| 3. _____ | 3. _____ |
| 4. _____ | 4. _____ |
| 5. _____ | 5. _____ |
| 6. _____ | 6. _____ |
| 7. _____ | 7. _____ |
| 8. _____ | 8. _____ |
| 9. _____ | 9. _____ |
| 10. _____ | 10. _____ |

Scale: $1/4" = 1'-0"$

- | | |
|-----------|-----------|
| 1. _____ | 1. _____ |
| 2. _____ | 2. _____ |
| 3. _____ | 3. _____ |
| 4. _____ | 4. _____ |
| 5. _____ | 5. _____ |
| 6. _____ | 6. _____ |
| 7. _____ | 7. _____ |
| 8. _____ | 8. _____ |
| 9. _____ | 9. _____ |
| 10. _____ | 10. _____ |

TITLE	DRAFTER	SCALE	DATE	DWG. NO.

EXERCISE 3-7

Measure the length of each line to the nearest inch on the scale.

Scale: $1/2'' = 1'-0''$

1. _____	1. _____
2. _____	2. _____
3. _____	3. _____
4. _____	4. _____
5. _____	5. _____
6. _____	6. _____
7. _____	7. _____
8. _____	8. _____
9. _____	9. _____
10. _____	10. _____
11. _____	11. _____
12. _____	12. _____
13. _____	13. _____
14. _____	14. _____
15. _____	15. _____

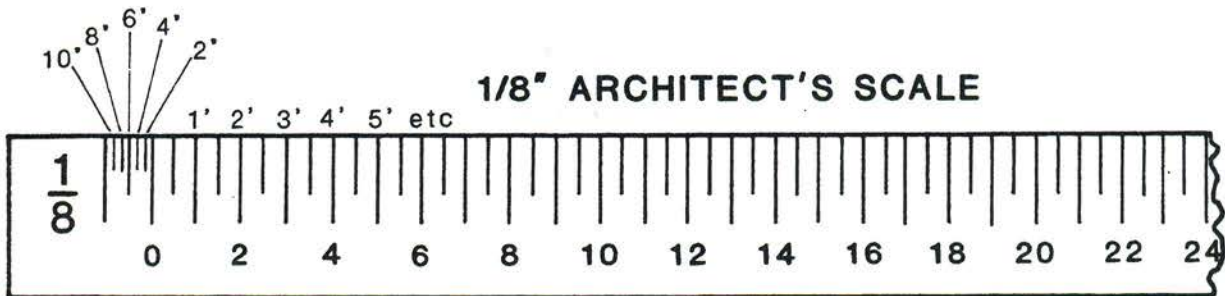
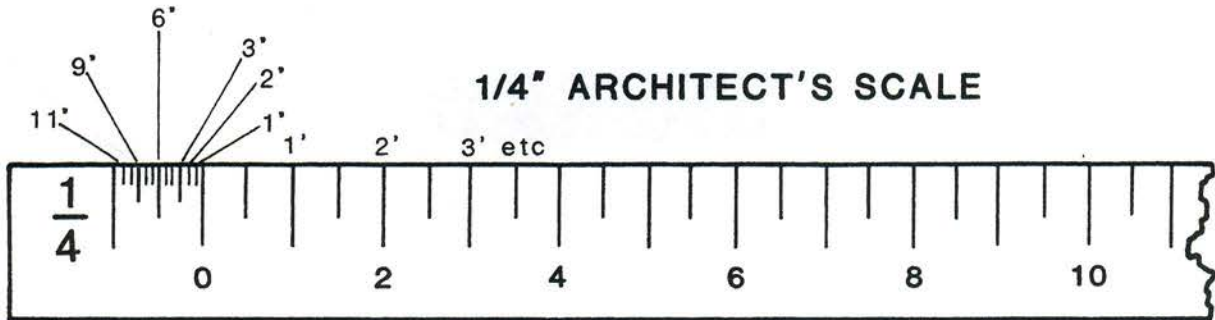
Scale: $1'' = 1'-0''$ (Measure to closest quarter inch on the scale)

1. _____	1. _____
2. _____	2. _____
3. _____	3. _____
4. _____	4. _____
5. _____	5. _____
6. _____	6. _____
7. _____	7. _____
8. _____	8. _____
9. _____	9. _____
10. _____	10. _____
11. _____	11. _____
12. _____	12. _____
13. _____	13. _____
14. _____	14. _____
15. _____	15. _____
16. _____	16. _____
17. _____	17. _____
18. _____	18. _____
19. _____	19. _____

TITLE	DRAFTER	SCALE	DATE	DWG NO.

EXERCISE 3-8

Mark the distance shown using the scale noted on each line. Scales are not actual size.

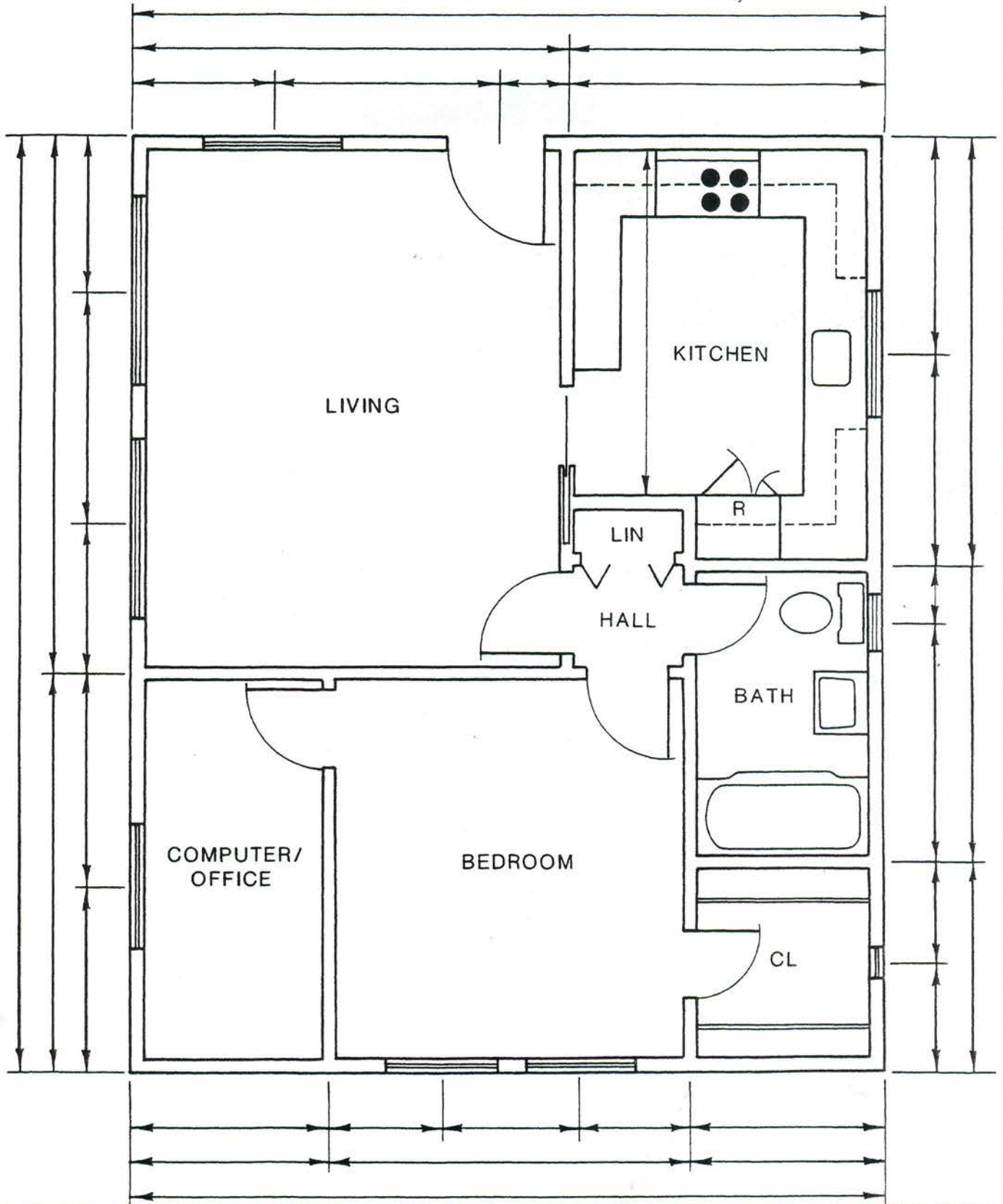


distance	scale	
11'-0"	1/4" = 1'-0"	1
15'-0"	1/4" = 1'-0"	2
10'-6"	1/4" = 1'-0"	3
8'-3"	1/4" = 1'-0"	4
2'-9"	1/4" = 1'-0"	5
22'-2"	1/4" = 1'-0"	6
13'-10"	1/4" = 1'-0"	7
17'-11"	1/4" = 1'-0"	8
9'-1"	1/4" = 1'-0"	9
6'-4"	1/4" = 1'-0"	10
14'-8"	1/4" = 1'-0"	11
44'-0"	1/8" = 1'-0"	12
24'-6"	1/8" = 1'-0"	13
19'-2"	1/8" = 1'-0"	14
5'-4"	1/8" = 1'-0"	15
10'-6"	1/8" = 1'-0"	16
33'-8"	1/8" = 1'-0"	17
7'-7"	1/8" = 1'-0"	18
15'-9"	1/8" = 1'-0"	19
38'-0"	1/8" = 1'-0"	20

TITLE	DRAFTER	SCALE	DATE	DWG. NO.

EXERCISE 13-7

Make all measurements with scale: $1/4" = 1'-0"$. Sub dimensions must total correctly.



TITLE	DRAFTER	SCALE	DATE	DWG NO.