

CHAPTER 1 Solutions Key
Foundations for Geometry

ARE YOU READY? PAGE 3

- | | |
|---|--|
| 1. C | 2. E |
| 3. A | 4. D |
| 5. $7\frac{1}{2}$ in. | 6. $2\frac{1}{2}$ cm |
| 7. 100 yd | 8. 10 ft |
| 9. 30 in. | 10. 15.6 cm |
| 11. $8y$ | 12. $-2x + 56$ |
| 13. $-x - 14$ | 14. $-2y + 31$ |
| 15. $x + 3x + 7x$
$= 11x$
$= 11(-5)$
$= -55$ | 16. $5p + 10$
$= 5(78) + 10$
$= 390 + 10$
$= 400$ |
| 17. $2a - 8a$
$= -6a$
$= -6(12)$
$= -72$ | 18. $3n - 3$
$= 3(16) - 3$
$= 48 - 3$
$= 45$ |
| 19. (0, 7) | 20. (-5, 4) |
| 21. (6, 3) | 22. (-8, -2) |
| 23. (3, -5) | 24. (6, -4) |

1-1 UNDERSTANDING POINTS, LINES, AND PLANES, PAGES 6-11

CHECK IT OUT! PAGES 6-8

1. Possible answer: plane \mathcal{R} and plane ABC

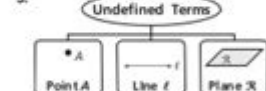


3. Possible answer: plane GHF



THINK AND DISCUSS, PAGE 8

- By Post. 1-1-1, through any 2 pts. there is a line. Therefore any 2 pts. are collinear.
- Post. 1-1-4
- Any 3 noncollinear pts. determine a plane.
- \overleftrightarrow{AB} , \overleftrightarrow{BA} , \overleftrightarrow{AB} , \overleftrightarrow{BA} ; 0 planes



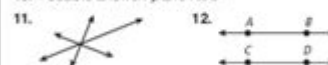
EXERCISES, PAGES 9-11

GUIDED PRACTICE, PAGE 9

- Possible answer: the intersection of 2 floor tiles
- S
- A, B, C, D, E
- Possible answer: \overleftrightarrow{AC} , \overleftrightarrow{BD}
- Possible answer: ABC and \mathcal{N}
- Possible answer: B, C, or D



- Possible answer: \overleftrightarrow{AB}
- Possible answer: plane ABD

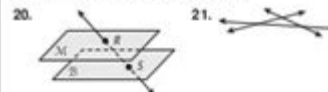


PRACTICE AND PROBLEM SOLVING, PAGES 9-10

- B, E, A
- Possible answer: B, C, D, E
- Possible answer: plane ABC



- Possible answer: G, J, and ℓ
- Possible answer: planes \mathcal{T} and \mathcal{S}



- Possible answer: tip of a stake
- Possible answer: string
- Possible answer: grid formed by string



- U
- U

- If 2 pts. lie in a plane, then the line containing those pts. lies in the plane.
- If 2 lines intersect, then they intersect in exactly 1 pt.
- It is not possible. By Post. 1-1-2, any 3 noncollinear pts. are contained in a unique plane. If the 3 pts. are collinear, they are contained in infinitely many planes. In either case, the 3 pts. will be coplanar.

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If you were to need such a