4.2 Day 1 Worksheet Answers

1. E
2. D
3. C
4. B
5. A
6. Angle Addition Postulate
7. Definition of Complementary Angles
8. Definition of Supplementary Angles
9. Definition of a right angle
10. Definition of Supplementary Angles
11. Definition of Perpendicular Lines
12. $\angle SMP$
13. $\angle QMT$
14. $\angle TMR$ and $\angle PMT$ (Answers may vary)
15. $\angle QMS$ and $\angle RMP$
16. $\angle SMP$
17. $m\angle MLP = 93°$
18. $m\angle RSW = 121°$
19. $\angle 1$ and $\angle 2$, $\angle 2$ and $\angle 3$
20. $\angle 1$ and $\angle 3$
21. $\angle 2$
22. $\angle 3$ and $\angle 4$
23.
    a. A, E
    b. B
    c. C
    d. D
24.
    a. C, F
    b. A
    c. E
    d. B
    e. G
    f. D
25.

Statements	Reasons
$\angle 1$ and $\angle 2$ form a linear pair	Given by diagram
$\angle 2$ and $\angle 3$ are supplementary	Given
$\angle 1$ and $\angle 2$ are supplementary	Definition of a linear pair
$m\angle 1 + m\angle 2 = 180, m\angle 2 + m\angle 3 = 180$	Definition of Supplementary
$m\angle 1 + m\angle 2 = m\angle 2 + m\angle 3$	Substitution Property
$m\angle 1 = m\angle 3$	Subtraction Property
$\angle 1 \cong \angle 3$	Definition of Congruency