

8. B: $90^\circ \div 2 = 45^\circ$
9. B: $90^\circ \div 2 = 45^\circ$
10. C: $\perp$
11. A: $\parallel$
12. A: This is the converse of the original statement.
13. C: I and III: straightedge and compass
14. D: at the vertex
15. C: perpendicular lines are not parallel

6. E: angles 1, 2, 4, 5, 6, 7 and 8
7. C: 65° ; vertically opposite angles
8. D: vertically opposite angles
9. E: supplementary angles
10. E: can't tell: rules for alternate exterior angles apply only for parallel lines
11. C: If the sum of two angles is 180° , they are supplementary.
12. A: parallel lines
13. D: 45°
14. D: 8: four for each intersection
15. B: congruent

Test 6

1. E: supplementary
2. C: congruent
3. B: $90^\circ - 35^\circ = 55^\circ$
4. C: $180^\circ - 40^\circ = 140^\circ$
5. E: $20^\circ + 70^\circ = 90^\circ$, so they are complementary.
6. B: $\angle 2$ and $\angle 5$
7. A: 90° , because line SV $\perp$ line WT
8. E: can't tell from information given
9. D: $\angle 1$
10. A: 180° They combine to form a straight angle.
11. C: vertical angles
12. D: We don't know the measures of $\angle 4$ and $\angle 5$, so sum cannot be determined.
13. A: $\overleftrightarrow{FC}$ is a straight line, so $\angle 1$ would be included to make 180° .
14. D: The measures of these angles are not given: looking the same is not sufficient.
15. A: $90^\circ + 90^\circ < 185^\circ$

Test 8

1. E: I, II and V
2. C: All squares have 4 right angles and opposite sides that are congruent, so they are rectangles.
3. D: Some trapeziums have 1 right angle, but they need not have any.
4. E: length of each side
5. A: quadrilateral
6. D: 180°
7. D: square
8. B: rhombus
9. A: 360°
10. B: trapezium
11. A: $5 + 7 + 9 + 3 = 24$ m
12. C: $9 + 10 + 15 = 34$ m
13. D: unlabelled horizontal side has a length of $8,5 - 4 = 4,5$ m
 $P = 4 + 3 + 4,5 + 2 + 8,5 + 5 = 27$ m
14. B: $P = 4(11) = 44$ cm
15. E: $P = 2(25) + 2(15) = 50 + 30 = 80$ cm

Test 7

1. D: $\angle 7$
2. C: $180^\circ - 80^\circ = 100^\circ$
3. E: Alternate interior angles are congruent.
4. B: $\angle 2$
5. D: alternate exterior angles

Test 9

1. B: height
2. E: perpendicular to the base
3. B: divide by two
4. D: find the average base