ANGLES ON PARALLEL LINES

Answer all of these questions. Remember to show your working out in all questions.

MAIN QUESTIONS

1. Find the value of x if the corresponding angles are 75° and 3x° | x = 25

2. Find the value of y if the alternate angles are 110° and 5y° | y = 22

3. Find the value of z if the co-interior angles are 60° and 4z° | z = 30

4. Find the value of a if the corresponding angles are 8a° and 120° | a = 15

5. Find the value of b if the alternate angles are 7b° and 140° | b = 20

6. Find the value of c if the co-interior angles are 3c° and 150° | c = 10

7. Find the value of d if the corresponding angles are 5d° and 95° | d = 19

8. Find the value of e if the alternate angles are 4e° and 88° | e = 22

9. Find the value of f if the co-interior angles are 6f° and 102° | f = 13

10. Find the value of g if the corresponding angles are 9g° and 135° | g = 15

11. Find the value of h if the alternate angles are 10h° and 170° | h = 17

12. Find the value of k if the co-interior angles are 12k° and 48° | k = 11

13. Find the value of m if the corresponding angles are 7m° and 161° | m = 23

14. Find the value of n if the alternate angles are 11n° and 121° | n = 11

15. Find the value of p if the co-interior angles are 5p° and 115° | p = 13

16. Find the value of q if the corresponding angles are 6q° and 114° | q = 19

17. Find the value of r if the alternate angles are 8r° and 144° | r = 18

18. Find the value of s if the co-interior angles are 9s° and 81° | s = 11

19. Find the value of t if the corresponding angles are 10t° and 170° | t = 17

MASTER QUESTIONS

M1. Two parallel lines are intersected by a transversal. One of the corresponding angles is 5x° and the other is 3x + 40°. Find the value of x and the measure of each angle. | x = 20, angles are 100° and 100°