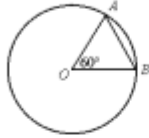


SECTION I
Time-30minutes
38 Questions

$$5y = 15$$

$$x = 2y$$

8. x 5



O is the center of the circle and the perimeter of $\triangle AOB$ is 6.

2. The circumference of the circle 12

Ken's monthly take-home pay is w dollars. After he pays for food and rent, he has x dollars left.

3. x $w - x$

4. $\frac{\frac{13}{15} + \frac{7}{8} + \frac{3}{4}}{3}$ 1

$$(x - 2y)(x + 2y) = 4$$

5. $x^2 - 4y^2$ 8

6. $\frac{0.3}{1.5}$ $\frac{2}{10}$

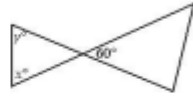
The operation \blacklozenge is defined for all positive numbers r and t by $r \blacklozenge t = \frac{(r-t)^2 + rt}{t}$.

7. $71 \blacklozenge 37$ $37 \blacklozenge 71$



8. $\frac{BD}{AB}$ $\frac{DC}{BC}$

9. $(250)(492)$ $\frac{492,000}{4}$



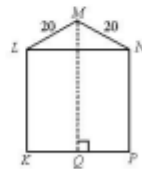
10. x y

11. The number of prime numbers between 70 and 76 The number of prime numbers between 30 and 36

$$6 < x < 7$$

$$y = 8$$

12. $\frac{x}{y}$ 0.85



$KLPN$ is a square with perimeter 128.

13. MQ 42

14. $\frac{2+3x}{2}$ $1+3x$