

HD PUBLICATION
MATHS OLIMPIAD
PAPER-1



1.சுருக்குக.($20 \times 4 = 80$)

(1) $5 \times 6 \times 7 \times 0 \times 1 \times 5 \times 59 \times 100 \times 70 \times 79$

(2) $6 \times 7 \times 0 \times 5 \times 9 \times 10 \times 100 \times 1000 \times 50 \times 79 \times 99 \times 99 \times 99 \times 1 + 1$

(3) $a + a + a \times a + b + b \times b$

$$(4)a + b + a \times a + b + c + b \times b + c + c + c + c \times c$$

2.இடையைக் காண்க.(20)

$(-5), (-2), 0, 5, 12$

விடைத்தாள்

$$1.(1)5 \times 6 \times 7 \times 0 \times 1 \times 5 \times 59 \times 100 \times 70 \times 79$$

$$=0$$

$$(2)6 \times 7 \times 0 \times 5 \times 9 \times 10 \times 100 \times 1000 \times 50 \times 79 \times 99 \times 99 \times 99 \times 99 \times 1 + 1$$

$$=0+1$$

$$=1$$

$$(3)a + a + a \times a + b + b \times b$$

$$= a + a + a^2 + b + b^2$$

$$3a^2 + 2b^2$$

$$(4)a + b + a \times a + b + c + b \times b + c + c + c + c \times c$$

$$= a + b + a^2 + b + c + b^2 + c + c + c + c^2$$

$$= 2a^2 + 3b^2 + 5c^2$$

$$5.((-5)+(-2)+0+5+12) \div 5$$

$$=((-7)+17) \div 5$$

$$=10 \div 5$$

$$=2$$