

.() " - x
 40% -
 , 140% - , x - , 40%
 $.140\%x = \frac{140}{100}x = 1.4x$

. 9 - 5 128

()	()	(")	
$5 \cdot 1.4x = 7x$	$1.4x$	5	
$9x$	x	9	

$$7x + 9x = 128 \quad :$$

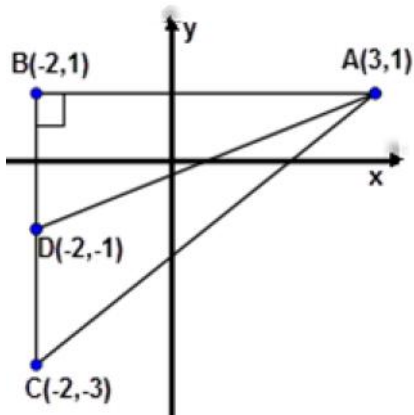
:

$$7x + 9x = 128$$

$$16x = 128 \quad /:16$$

$$\boxed{x = 8}$$

. 8 :



$y - 1 = 0$ BC
 $x - 3 = 0$ AB
 $y - 1 = 4(x - 3)$
 $3 - (-2) = 5$ (y)
 $S_{\triangle ABC} = \frac{BC \cdot AB}{2} = \frac{4 \cdot 5}{2} = 10$

" 10 ABC :

,BC , D
 $x_D = \frac{x_B + x_C}{2} = \frac{-2 + (-2)}{2} = \frac{-4}{2} = -2$
 $y_D = \frac{y_B + y_C}{2} = \frac{1 + (-3)}{2} = \frac{-2}{2} = -1$

.D(-2, -1) : BC
 D(-2, -1) :

$y - 1 = 2(x - 3)$ ABD BD
 .BD A , AB
 $S_{\triangle ABD} = \frac{BD \cdot AB}{2} = \frac{2 \cdot 5}{2} = 5$

ABC AD

.ABC
 $S_{\triangle ABD} = \frac{S_{\triangle ABC}}{2} = \frac{10}{2} = 5$
 " 5 ABD :

$$d = 5 \quad a_1 = 20$$

,9 -

$$a_n = a_1 + (n-1)d$$

.9 -

$$a_9 = 20 + (9-1) \cdot 5$$

$$a_9 = 20 + 8 \cdot 5$$

$$a_9 = 20 + 40$$

$$\boxed{a_9 = 60}$$

.9 - 60 :

$$S_{10}$$

$$S_n = \frac{n[2a_1 + d(n-1)]}{2}$$

$$S_{10} = \frac{10[2 \cdot 20 + 5 \cdot (10-1)]}{2}$$

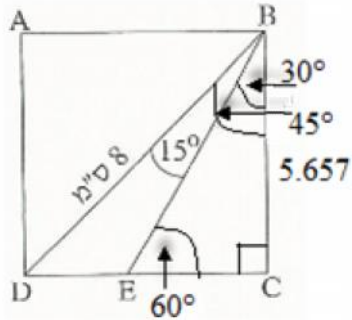
$$S_{10} = 5 \cdot (40 + 45)$$

$$S_{10} = 5 \cdot 85$$

$$\boxed{S_{10} = 425}$$

" 425 :

$$\therefore \angle DBC = \frac{90^\circ}{2} = 45^\circ$$



$\triangle DBC$

$$\cos \angle DBC = \frac{BC}{BD}$$

$$\cos 45^\circ = \frac{BC}{8} \quad / \cdot 8$$

$$8 \cos 45^\circ = BC$$

$$BC = " 5.657$$

$$\therefore BC = " 5.657 :$$

$\therefore \angle BEC$ (1)

$$\angle EBC = 45^\circ - 15^\circ = 30^\circ$$

$$\angle BEC = 180^\circ - 30^\circ - 90^\circ = 60^\circ$$

$$\therefore \angle BEC = 60^\circ :$$

$\therefore CE$ (2)

$\triangle BEC$

$$\tan \angle EBC = \frac{CE}{BC}$$

$$\tan 30^\circ = \frac{CE}{5.657} \quad / \cdot 5.657$$

$$5.657 \tan 30^\circ = CE$$

$$CE = " 3.266$$

$$\therefore CE = " 3.266 :$$

36 "

	1	2	3	4	5	6
1	2	3	4	5	6	7
2	3	4	5	6	7	8
3	4	5	6	7	8	9
4	5	6	7	8	9	10
5	6	7	8	9	10	11
6	7	8	9	10	11	12

2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 :

:4

(3, 1), (2, 2), (1, 3) :

.12

$\frac{1}{36}$ 12 :

.()

7

7 :

5	4	3	2	1	0	(x)
2	10	?	24	6	5	(f)

0.40% = 0.4 (24) 2

$$\frac{24}{n} = 0.4 \quad / \cdot 0.4$$

$$24 = 0.4n \quad / : 0.4$$

$$\boxed{n = 60}$$

60 :

$$N = f_1 + f_2 + \dots + f_n :$$

$$60 - 5 - 6 - 24 - 10 - 2 = 13$$

$$\bar{x} = \frac{x_1 f_1 + x_2 f_2 + \dots + x_n f_n}{N} :$$

5	4	3	2	1	0	(x)
2	10	13	24	6	5	(f)

$$\bar{x} = \frac{0 \cdot 5 + 1 \cdot 6 + 2 \cdot 24 + 3 \cdot 13 + 4 \cdot 10 + 5 \cdot 2}{60} = \frac{143}{60}$$

$$\boxed{\bar{x} = 2.383}$$

2.383 :

$(\frac{60}{2} = 30)$ 31 - 30 - , (60)

5	4	3	2	1	0	(x)
2	10	13	24	6	5	(f)
60	58	48	35	11	5	

2 , ()

1. 2 :