



$x + 3 = 10$ $2x - 7 = 18$, $3x = 9$ GBÝ® \©BÉðkPØÍ U P, xP.
 Ca\©B Éðk PÍ À J, öu> öU Po - ® ©mk ÷© E ÒÍ x. A zx h B
 C [S öu> öU Po - zvß _mi²® J B Óös®. CÆÁ öÖ, J,
 öu> öU Po - zø u²® A uß _mi J B ÓöpÄ® E ÒÍ \©B Éðk
 "« GÍ - \©BÉðk»" GÚ' Ék®.

$x + 5 = 8$ GBÝ® \©B Éðmi B Chx EUP• ÒÍ $x + 5$ GBÝ®
 ÷Pöø Á° B öÉÖ©öÚ® Á » " EUP• ÒÍ 8 USa \©ÚöQßÓx.

\©BÉðöhöBÖÀ =~ GBÝ® SÖ±mk hB öu> öU Po - [PÖ,
 Po ua ö\´ø PPÖ GB ÉÚ Ä® Pön " Ék®.

² Ä - öÉö> J, Ä> h® xGs o UøP öPös h ©ö®EÇ [PÖ EÒÍ Ú.
 AÁ° ÷©¾® 24 ©ö®EÇ [PÖ Áö [QÚö°. C" öÉöÉ x AÄ> h®
 ö©özu©öP 114 ©ö®EÇ [PÖ EÒÍ Ú. C uø Ú J, \©B Éðmi B
 %»® Pömk ÷Á ö®.

Ä - öÉö, ° h® B µ®Ezv Ä C, tu ©ö®EÇ [PÍ
 B Gs o UøP x GÚU öPöÖ÷Áö®.



$AÁ° Áö [Q^- EÇ [PÍ B Gs o UøP = 24$
 $C" öÉöÉ x AÄ> h® C, US®$

$EÇ [PÍ B ö©özu Gs o UøP = x + 24$

$AÄ> h® C, US® EÇ [PÍ B ö©özu Gs o UøP 114 GBÉuöÄ$
 $x + 24 = 114$

$Cx J, GÍ - \©BÉðhös®.$

² J, Éöo B Äø» 1. 4 C Ú öÀ S ø Óçux. A " ÷Éöx Éöo B
 |v^- Äø» 1. 50 BS®. CuøÚa \©BÉðk JBÖß %»®
 Pömk ÷Á ö®.

$Éöo B \cdot B ø Ú^- Ä ø » ø^- 1. b GÚU öPöÖ÷Áö®.$

$J, Éöo B Äø» 1. 4 C Ú öÀ S ø ÓÁ ø h çuuöÄ$

$Éöo B |v^- Äø» = b - 4$

$AzxhB Éöo B |v^- Äø» 1. 50 GBÉuÚöÄ$

$b - 4 = 50$

$Cx J, GÍ - \©BÉðhös®.$





$\frac{1}{2} \times 10 = 5$
 $5 \times 2 = 10$
 $10 \times 2 = 20$
 $20 \times 2 = 40$
 $40 \times 2 = 80$
 $80 \times 2 = 160$
 $160 \times 2 = 320$
 $320 \times 2 = 640$
 $640 \times 2 = 1280$
 $1280 \times 2 = 2560$
 $2560 \times 2 = 5120$
 $5120 \times 2 = 10240$
 $10240 \times 2 = 20480$
 $20480 \times 2 = 40960$
 $40960 \times 2 = 81920$
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உதாரணம் 3

$$\begin{array}{l}
 \text{w}^\circ\text{UP. } 3y - 2 = 10 \\
 \begin{array}{c}
 y \xrightarrow{\times 3} 3y \xrightarrow{- 2} 3y - 2 \quad (\text{Ch}^\circ \text{EUP}^\circ) \\
 \leftarrow \frac{y}{4} \xleftarrow{\div 3} \frac{3y}{12} \xleftarrow{+ 2} \frac{3y - 2}{10} \quad (\text{Á}^\circ \text{EUP}^\circ)
 \end{array} \\
 \therefore y = 4
 \end{array}$$

பயிற்சி 15.2

1. ஈ ங Á , ® J Æö Á ö, \©ß £ömk h² ® w^oUP.

- | | | | |
|--------------------|--------------------|---------------------|----------------------|
| (i) $x + 6 = 7$ | (ii) $x + 4 = 20$ | (iii) $x - 5 = 14$ | (iv) $x - 3 = 27$ |
| (v) $6x = 48$ | (vi) $7b = 56$ | (vii) $2x + 5 = 9$ | (viii) $8x + 7 = 79$ |
| (ix) $7x - 5 = 51$ | (x) $9x - 7 = 101$ | (xi) $11x + 1 = 12$ | |

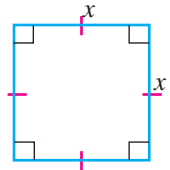
2. 1 . y Æu^o 18 Á öø Ç^o EÇ[Pø Í² ® 1 . 80 Æ ø»
² ø h⁻ J_o £^o Eö] ^o EÇzø u² ® Á ö[S Á uøS
 1 . 170 ö\» Á öÚx. J_o Á öøÇ^o EÇzvß
 Æ ø» ø⁻ U Pös P.



15.3 சூத்திரங்கள்

\x mü ©öb Öß EUPzvß }Í zx US ® _øóÍ Ä US ® C ø h^o » öÚ
 öuøh^oøEU Pös ÷ £ö®.

\x mü ©öb Öß J_o EUPzvß }Í ® x cm GÚÄ® Auß
 _øóÍ øÁ p cm GÚÄ® öPöÖ÷Áö®. A^o ÷ £öx Auß
 _øóÍ Á öÚ x EUP[PÍ ß T mk ö uøö PUS a \©Ú öS ®.
 $p = x + x + x + x = 4x$



CÆÁöóöÚ \©ß£ömkPøÍ a` zvm^o GB ÷ £ö®.

C[S p B Úx ` zvmzvÀ EöÍ GÉ Á ö' GÚ^o £k ®.

EUP }Í ® x E^o _øóÍ Ä p² ® öPös h \x mü ©öb Öß x , p
 GB £Á øöUQø h^o » öÚ öuøh^oøEU Pömk ® ` zvm^o p = 4x BS®.

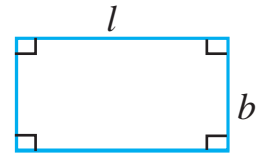


Ca` zvmzø u` EUP }Í ® öu> fu GfuöÁ õ, \x μzv Ú x ® _ØÓ Í øÁU Põn E£÷` òQUP» õ®.

` zvmzvB C, EUP[PÍ Úx® A» SPÒ \©ÚõS®. ` zvmö©õBÔÀ E» ©õÔPÒ C, UP» õ®.

ö\ÆÁ P Á i Á ©õÚ A h° J B ÔB _ØÓÍ ø Á U Põn C ÆÁ õÓõÚ ` zvm® JBøÓ E, ÁõUS÷Áõ®.

ö\ÆÁ P Ah>B }Í ® l A » SPÐ ® A P» ® b A » SPÐ ® B S®. A uB _ØÓÍ Ä P B Úx.



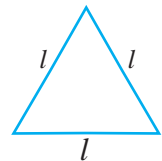
$$P = l + b + l + b$$

$$BP ÷ Á P = 2l + 2b BS®.$$

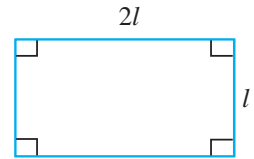
Ca` zvmø u` E` B Ek zv GfuöÁ õ, ö\ÆÁ Pzv Ú x ® _ØÓÍ ø Á U Põn » õ®.

பயிற்சி 15.3

1. EUPö©õBÔB }Í ® l A » SPÒ Eøh` \©EUP • U÷Põo JB ÔB _ØÓÍ Ä P A » SPÒ BS®. P, l GB EÁ ØÖUQø h° » õÚ öuõh°ø EU Põmh ` zvm® JBøÓ Aø©UP.



2. 2l A » SPÒ }Í • ® l A » SPÒ A P» • ® Eøh` ö\ÆÁ PzvB _ØÓÍ Ä P l U Põmh l A h[Q` ` zvm® JBøÓ Aø©UP.



3. E, ÂÀ EÒÍ ö\ÆÁ PzvB AP» ® x A » SPÐ ® }Í ® AP» zøu Â h 10 cm E® T i` x. _ØÓÍ Ä P GÚ B P, x A h[Q` ` zvm® JBøÓ Aø©UP.





4. $a \beta P m h n \otimes J \beta \hat{O} \beta \{ \emptyset \} \sim \hat{o} \dot{U} P m h n \otimes 1, 100 B S \otimes$. $A u \emptyset S \div \textcircled{C} \gg \sqrt{P \textcircled{o} P} 100 A \gg S P \hat{I} \frac{3}{4} \otimes S \emptyset \hat{O} \textcircled{C} u \textcircled{E} \hat{O} \hat{A} \emptyset \dot{U} U P \textcircled{o} P A \gg \textcircled{o} P \hat{O} \beta \hat{O} U S^1 . 8 \hat{A} u \otimes P m h n \otimes \textcircled{o} \frac{3}{4} z u \div \hat{A} s k \otimes$. $\sim P^{\circ} \div \hat{A} \hat{o} J, \hat{A}^{\circ} \textcircled{C} \hat{o} u \textcircled{o} \textcircled{C} u \otimes \textcircled{E} \hat{O} \hat{A} z u^a \beta A \gg S P \hat{I} \beta G s o U \emptyset P n A \gg S P \hat{D} \otimes \wedge C [\div P n < 100 B S \otimes . \& A \hat{A}^{\circ} \textcircled{o} \frac{3}{4} z u \div \hat{A} s i \sim^a \beta P m h n \otimes 1 . p E \otimes G \dot{U} \beta p, n A h [Q^- \backslash z v \mu \otimes J \beta \emptyset \hat{O} A \emptyset \textcircled{C} U P$.

5. $\textcircled{E} \hat{O} \hat{A} \textcircled{E} U \textcircled{o} P \hat{O} \hat{O} P \hat{O} \textcircled{E} \emptyset \textcircled{E} z v \textcircled{o} \backslash ^2 \otimes C^- \textcircled{C} v \mu \textcircled{o} \textcircled{o} \beta \hat{O} \cdot u \hat{A} \textcircled{C} \textcircled{O} z v^- \hat{o} \gg \sim z v \hat{A} N G s o U \emptyset P \textcircled{o} P \hat{O} s h \textcircled{E} U \textcircled{o} P \hat{O} \hat{O} P \hat{D} \otimes, A u \beta \times \beta J \hat{A} \textcircled{o} \hat{A} \hat{o}, \textcircled{C} \textcircled{O} z v^- \hat{o} \gg \sim \cdot \otimes n G s o U \emptyset P \hat{A} u \otimes \textcircled{o} P \hat{O} s h \textcircled{E} U \textcircled{o} P \hat{O} \hat{O} P \hat{D} \otimes \textcircled{E} \emptyset \textcircled{E} z v \textcircled{o} \backslash ^2 \otimes$. $A x 5 \textcircled{C} \textcircled{O} z v^- \hat{o} \gg [P \hat{I} \hat{A} \textcircled{E} \emptyset \textcircled{E} z v \textcircled{o} \backslash u \textcircled{E} U \textcircled{o} P m k P \hat{I} \beta G s o U \emptyset P T G \dot{U} \beta T^{\circ} \emptyset P \hat{O} \dot{U} N, n A h [Q^- \backslash z v \mu \otimes J \beta \emptyset \hat{O} A \emptyset \textcircled{C} U P$.

15.4 சூத்திரம் ஒன்றின் தெரியாக் கணியத்துக்காக எண்களைப் பிரதியிடல்

$l A \gg S P \hat{O} \} \hat{I} \cdot \otimes b A \gg S P \hat{O} A P \gg \cdot \otimes E \emptyset h^- \textcircled{o} \backslash \hat{E} \hat{A} P \textcircled{o} \textcircled{o} \beta \hat{O} \beta _ \hat{O} \hat{O} \hat{I} \hat{A} P G \dot{U} \beta P = 2l + 2b A \gg S P \hat{O} B S \otimes$. $S \hat{O} z u J, \textcircled{o} \backslash \hat{E} \hat{A} P \otimes 13 \text{ cm } \} \hat{I} \cdot \otimes 7 \text{ cm } A P \gg \cdot \otimes E \emptyset h^- x . \backslash z v \mu z v \emptyset \div P \hat{O} \textcircled{E} A u \beta _ \hat{O} \hat{O} \hat{I} \emptyset \hat{A} U P \hat{O} s P$.

$$\begin{aligned}
 P &= 2l + 2b \\
 l &= 13 \text{ cm}, b = 7 \text{ cm } G \beta \textcircled{E} u \hat{o} \hat{A} \\
 P &= 2 \times 13 + 2 \times 7 \\
 &= 26 + 14 \\
 _ \hat{O} \hat{O} \hat{I} \hat{A} &= 40 \text{ cm}
 \end{aligned}$$

