

S7 /

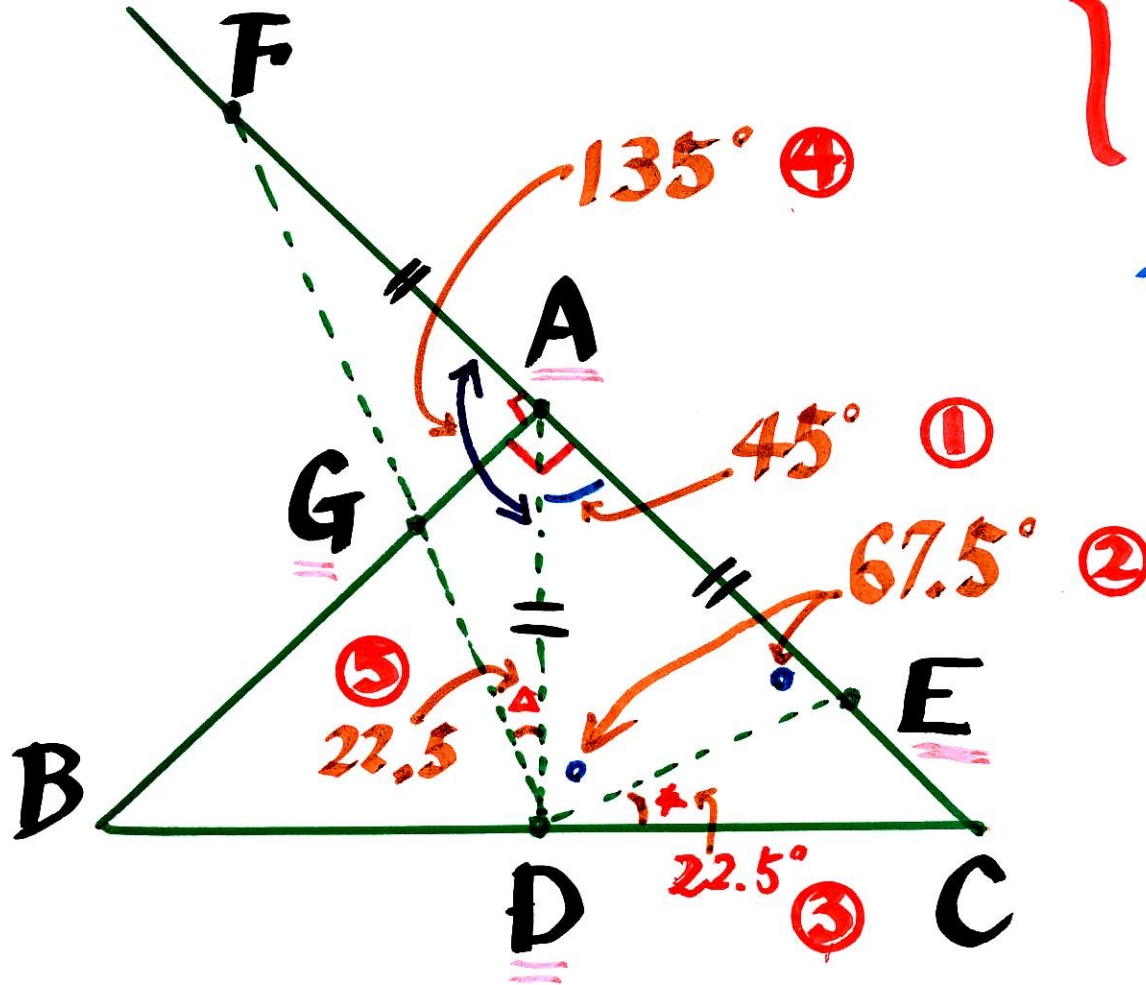
合同

{ 頂角と2辺が等しい..
 { 2角と1辺が等しい..

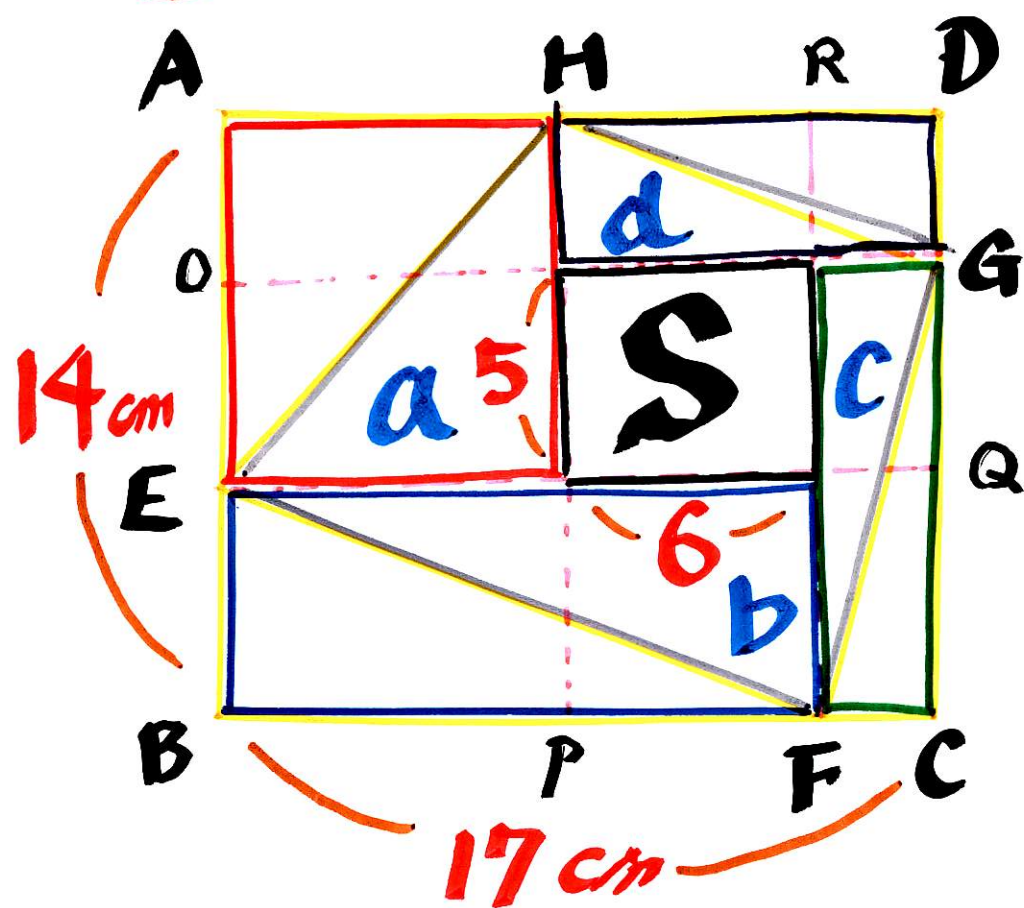
$$\therefore \triangle AGD = \triangle CED$$

$$\square AGDE = \triangle ADC$$

$$1 \times 1 \times \frac{1}{2} = \underline{\underline{\frac{1}{2}}}$$



S7 3



全体: $14 \times 17 = 238$

S: $5 \times 6 = 30$

全体 - S: 208

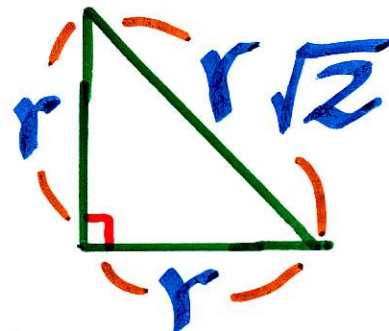
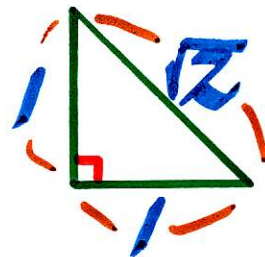
a, b, c, d は S を除く部分

$208 \div 2 = 104$

四角形 EFGH は $104 + 30$

$= 134$

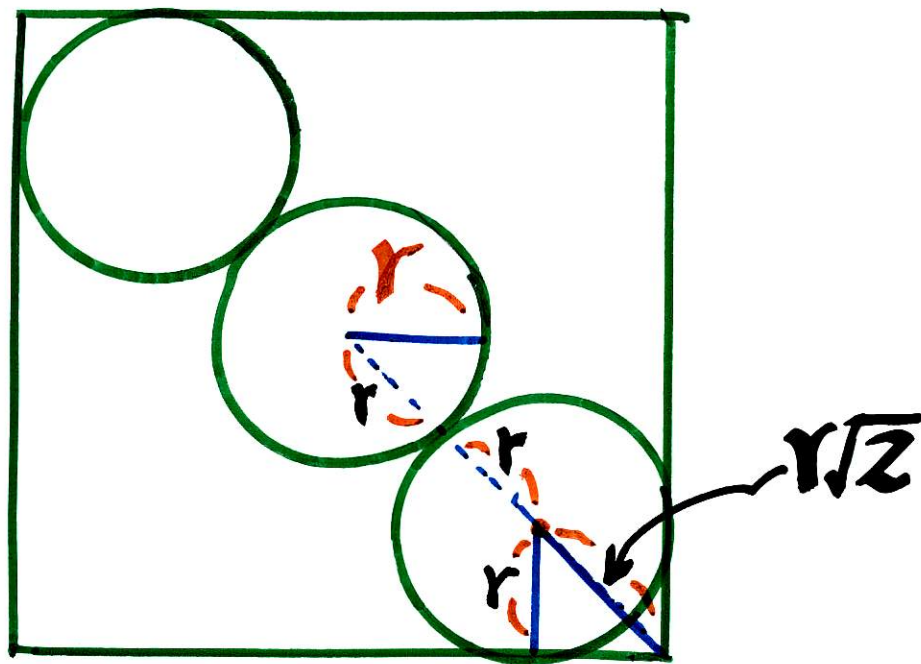
s7 6



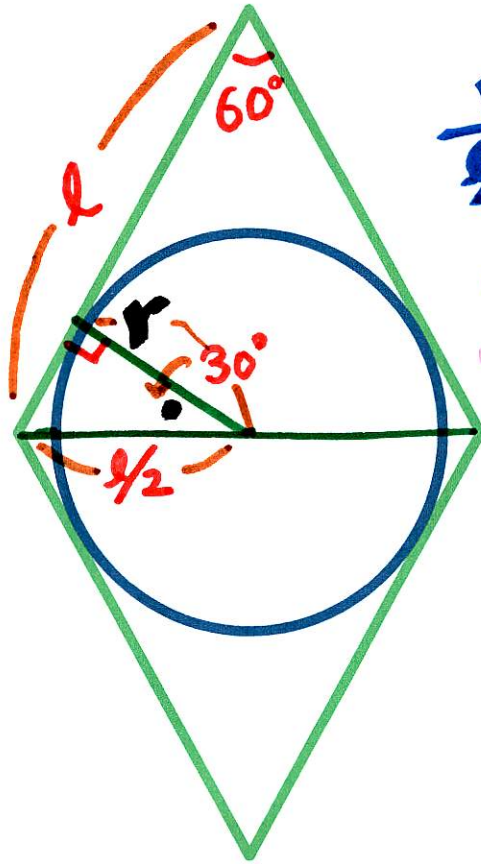
$$2r + r\sqrt{2} = 2$$

$$r = \frac{2(2 - \sqrt{2})}{(2 + \sqrt{2})(2 - \sqrt{2})}$$

$$= \underline{2 - \sqrt{2}}$$

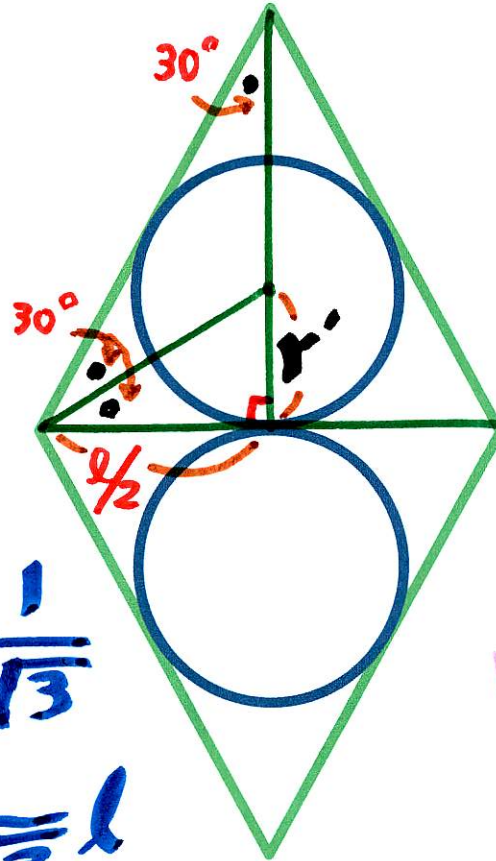


S7 **10** 59%



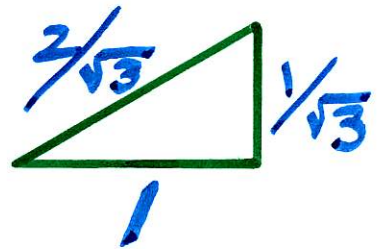
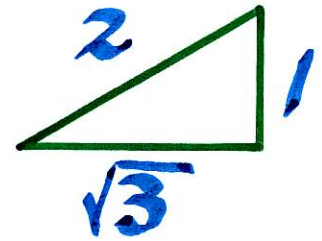
$$\frac{r}{l/2} = \frac{\sqrt{3}}{2}$$

$$r = \frac{\sqrt{3}}{4} l$$



$$\frac{r'}{l/2} = \frac{1}{\sqrt{3}}$$

$$r' = \frac{1}{2\sqrt{3}} l$$



$$\frac{3}{16} : \frac{1 \times 2}{12} = \frac{1}{6}$$

$$\Rightarrow 18:16$$

$$\rightarrow \mathbf{9:8}$$

面積は長士の2乗

$$r^2 = \frac{3}{16} l^2, r'^2 = \frac{1}{12} l^2$$