



TEST YOUR SKILLS

1 TEST The figure below is a regular octagon. What fraction of its area is shaded?

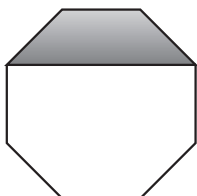
A $\frac{1}{3}$

B $\frac{1}{4}$

C $\frac{1}{5}$

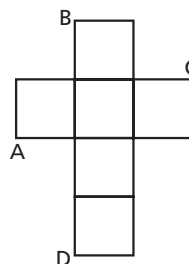
D $\frac{1}{6}$

E $\frac{3}{8}$



(USA University of North Carolina: Western Region State Mathematics Finals, 2003)

2 A cross is composed of six congruent squares as shown. Prove that the quadrilateral $ABCD$ is equivalent to the cross.



GLOSSARY

cross: croce

fraction: frazione

shaded: ombreggiato