

### Classwork PRACTICE

Given  $\triangle CAT \sim \triangle DOG$ .

1. Corresponding angles are congruent.

$\angle C \cong \angle \underline{D}$        $\angle T \cong \angle \underline{G}$        $\angle A \cong \angle \underline{O}$

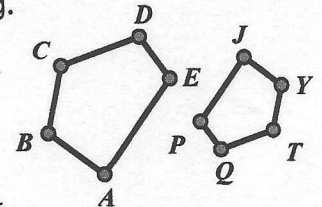
2. Corresponding sides are proportional.

$\frac{CA}{DO} = \frac{AT}{OG} = \frac{CT}{DG}$

3. Pentagon ABCDE is similar to Pentagon JYTQP. Complete the following.

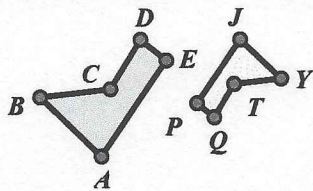
$\angle E \cong \angle \underline{P}$        $\frac{AB}{JY} = \frac{CD}{\underline{TQ}}$        $\frac{AB}{CD} = \frac{JY}{\underline{TQ}}$

$\angle T \cong \angle \underline{C}$        $\frac{TQ}{CD} = \frac{PJ}{\underline{EA}}$        $\frac{CD}{DE} = \frac{TQ}{\underline{QP}}$

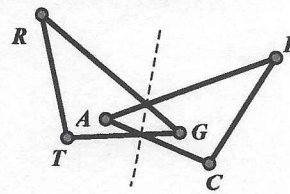


4. The two figures in each question are similar. Create the similarity statement from the diagram.

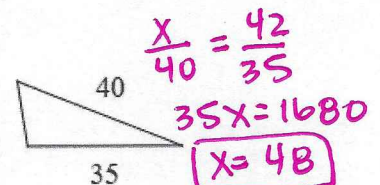
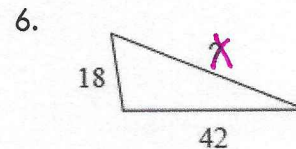
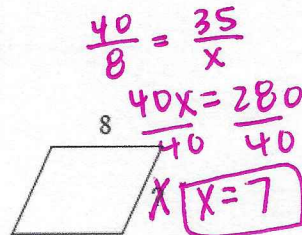
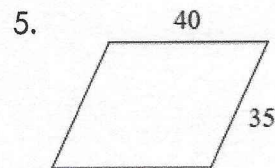
a) Pentagon ABCDE  $\sim$  JYTQP



b)  $\triangle ABC \sim \triangle$  GRT

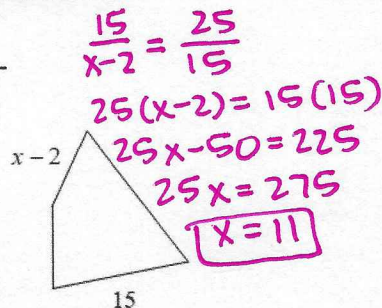
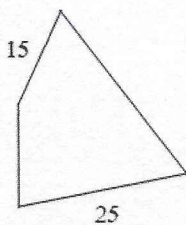


Find the missing side.

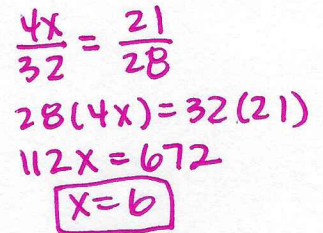
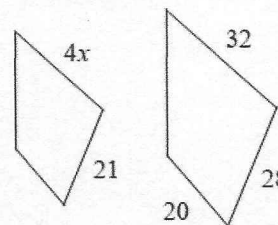


Now what about these?

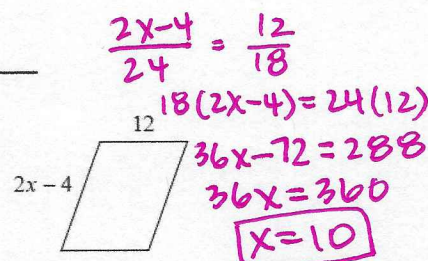
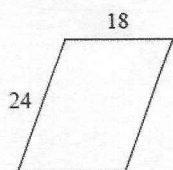
1.  $x = \underline{11}$



2.  $x = \underline{6}$



3.  $x = \underline{10}$



4.  $x = \underline{6}$

