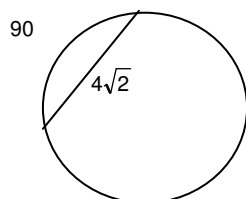
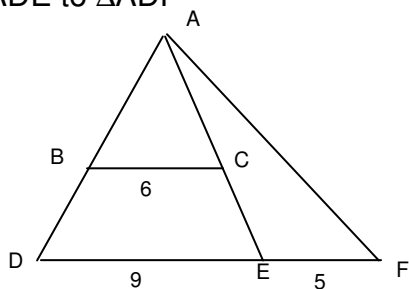


1. The areas of two circles are in the ratio 32:98. Find the ratio of their diameters.
2. The perimeters of two similar triangles are in the ratio $2:5\sqrt{5}$. Find the ratio of their areas.
3. A circle has a diameter of 42 cm. Find the circumference and the area.
4. Find the area of the shaded region.

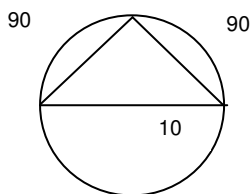


5. A trapezoid with sides lengths 5, 4, 5, and 12 has an area of 24 m^2 . Find the area of a similar trapezoid with longest side 18.
6. The area of sector AOB is 36π and $m\angle AOB = 40$. Find the length of \widehat{AB} .
7. Given the triangle shown, find the ratio for the areas of $\triangle ABC$ to $\triangle ADE$, and

$\triangle ADE$ to $\triangle ADF$



8. Find the area of the shaded region.



9. $\triangle RST \sim \triangle JKL$. $RS = 8$, $ST = 12$, $TR = 18$ and $KL = 16$.
 - a) What is the ratio of the perimeters of the two triangles?
 - b) What is the ratio of the areas of the two triangles?

10. Find the circumference of a circle with radius $\frac{3}{11}$. Use $\pi = \frac{22}{7}$

Answers:

1. Ratio of Diameters 4:7
2. 4:125
3. $C = 42\pi$ $A = 441\pi$
4. $4\pi - 8$
5. 54
6. 4π
7. Ratio of Areas 4:9 Ratio of bases 9:14
8. $50\pi - 100$
9. a) 3:4 b) 9:16
10. $C = 12/7$