

Name _____

Scale factors

Calculate the Area of Shapes by Using Scale Factors

1) A trapezoid has an area of 12 cm^2 . If it is enlarged by a scale factor of 2.5, what is the new area?	2) A rectangle has an area of 64 cm^2 . If it is reduced by a scale factor of 0.5, what is the new area?
3) A triangle has an area of 8 cm^2 . If it is enlarged by a scale factor of 4, what is the new area?	4) A square has an area of 100 cm^2 . If it is reduced by a scale factor of 0.2, what is the new area?
5) A parallelogram has an area of 30 cm^2 . If it is enlarged by a scale factor of 1.5, what is the new area?	6) A triangle has an area of 36 cm^2 . If it is reduced by a scale factor of 0.6, what is the new area?
7) A circle has an area of 49 cm^2 . If it is reduced by a scale factor of 0.7, what is the new area?	8) A trapezoid has an area of 12 cm^2 . If it is enlarged by a scale factor of 2.5, what is the new area?
9) A trapezoid has an area of 50 cm^2 . If it is reduced by a scale factor of 0.5, what is the new area?	10) A square has an area of 9 cm^2 . If it is enlarged by a scale factor of 4.5, what is the new area?