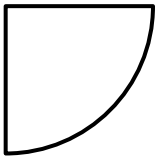
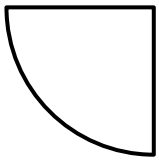
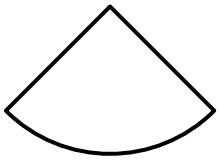
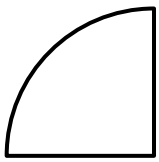
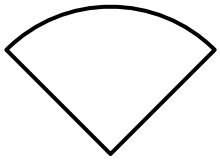
Name Date

AREA OF ¼ CIRCLES SHEET 2

Use the radius or diameter measurement to find the area of these ¼ circles. Give your answers to 1dp.

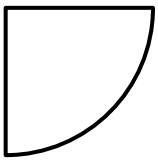
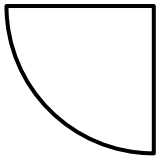
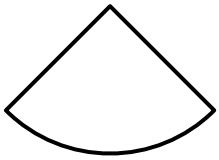
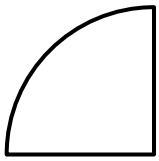
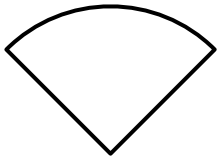
		WORKING OUT
1)	 Radius = 12 cm	Area =
2)	 Diameter = 9 ft	Area =
3)	 Diameter = 5 ½ in	Area =
4)	 Radius = 6.7 m	Area =
5)	 Diameter = 7.6 km	Area =

Free Math sheets, Math games and Math help
MATH-SALAMANDERS.COM

Name Date

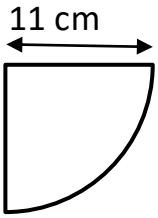
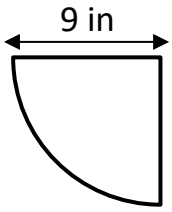
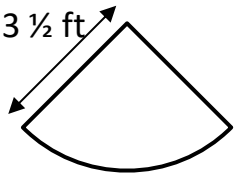
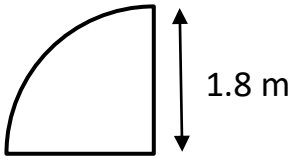
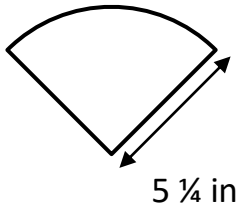
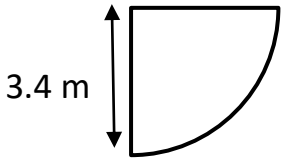
AREA OF ¼ CIRCLES SHEET 2 ANSWERS

Use the radius or diameter measurement to find the area of these ¼ circles. Give your answers to 1dp.

		WORKING OUT
1)	 Radius = 12 cm	Area = ¼ x π x 12^2 = ¼ x π x 144 = 36 π = 113.1 to 1dp Area = 113.1 cm^2
2)	 Diameter = 9 ft	Diameter = 9 ft so the Radius = 9/2 ft Area = ¼ x π x $(9/2)^2$ = ¼ x π x (81/4) = (81/16) π = 15.9 to 1dp Area = 15.9 ft^2
3)	 Diameter = 5 ½ in	Diameter = 5 ½ inches so Radius = 11/4 inches Area = ¼ x π x $(11/4)^2$ = ¼ x π x (121/16) = (121/64) π = 5.9 to 1dp Area = 5.9 in^2
4)	 Radius = 6.7 m	Area = ¼ x π x $(6.7)^2$ = ¼ x π x 44.89 = 11.2225 π = 35.3 to 1dp Area = 35.3 m^2
5)	 Diameter = 7.6 km	Diameter = 7.6 km so Radius = 3.8 km. Area = ¼ x π x $(3.8)^2$ = ¼ x π x 14.44 = 3.61 π = 11.3 to 1dp Area = 11.3 km^2

Free Math sheets, Math games and Math help
MATH-SALAMANDERS.COM

Name Date

		WORKING OUT	AREA
1)		Area = ¼ x π x 11^2 = ¼ x π x 121 = (121/4) π = 95.03 to 2dp	95.03 cm^2
2)		Area = ¼ x π x 9^2 = ¼ x π x 81 = (81/4) π = 63.62 to 2dp	63.62 in^2
3)		Area = ¼ x π x $(3\ ½)^2$ = ¼ x π x (49/4) = (49/16) π = 9.62 to 2dp	9.62 ft^2
4)		Area = ¼ x π x $(1.8)^2$ = ¼ x π x (3.24) = 0.81 π = 2.54 to 2dp	2.54 m^2
5)		Area = ¼ x π x $(5\ ¼)^2$ = ¼ x π x (441/16) = (441/64) π = 21.65 to 2dp	21.65 in^2
6)		Area = ¼ x π x $(3.4)^2$ = ¼ x π x (11.56) = 2.89 π = 9.08 to 2dp	9.08 m^2

Free Math sheets, Math games and Math help
MATH-SALAMANDERS.COM

Name Date