Name

Date



AREA OF A CIRCLE WORD PROBLEMS 3A

Work out these area word problems giving your answers to 1 decimal place.

1) A circular mirror has a 1 inch frame around it. The mirror itself is 8 inches in diameter.	
What is the area of the frame?	
The area of the frame is	
 2) A circular flower bed 5 yards in diameter is created in the middle of a rectangular lawn area measuring 12 yards by 8 yards. What is the area of the lawn that is left? 	
12 yards	
8 yards	
The area of lawn is	



Name

Date



AREA OF A CIRCLE WORD PROBLEMS 3A ANSWERS

Work out these area word problems giving your answers to 1 decimal place.

		Working out
1) A circular mirror has a 1 inch frame around it.		Radius of mirror = 8 ÷ 2 =
The mirror itself is 8 inches in diameter.		4 inches
What is the area o	of the frame?	Area of mirror is ⊓r ²
		which is $\pi \times 4^2 = 16 \pi$.
		Radius of mirror and
	frame = $10 \div 2 = 5$ inches	
/		Area of mirror and frame
	= Π x 5 ² = 25Π.	
	Area of frame - area of	
\land	mirror and frame – area	
1 inch	of mirror	
		Area of frame = 25n - 16n
		= 9 п = 28.3 in ²
The area of the fra		
2) A circular flower b	ed 5 yards in diameter is created	Area of lawn and flower
in the middle of a	bed = 12 x 8 = 96 square	
12 yards by 8 yard	yards.	
What is the area o		
		Radius of bed = $5 \div 2 =$
	12 yards	2.5 yards.
		Area of flower bed = Πr^2
		= 11 X 2.5 ² = 19.6 square
9 vorde		ydrus.
o yarus	→	Area of lawn = area of
	5 yards	lawn and bed – area of
		bed
		= 96 - 19.6 = 76.4 square
		yards.
The area of lawn i		

