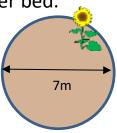
AREA OF A CIRCLE WORD PROBLEMS 2B

Work out these area word problems – give your answers to 1 decimal place where appropriate.

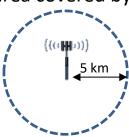
Working out

1) A circular flower bed has a diameter of 7m. Work out the area of the flower bed.



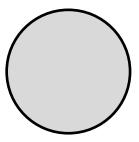
Area of the flower bed is _____ square yards.

2) A cell phone mast has a range of 5km in all directions. Work out the area covered by one mast.



Area covered by the mast is ______ .

3) A circular mirror has an area of 144⊓ square cm. What is the diameter of the mirror?



The diameter of the mirror is _____ cm.



Name Date

AREA OF A CIRCLE WORD PROBLEMS 2B ANSWERS



1) A circular flower bed has a diameter of 7m. Work out the area of the flower bed.

ver bed.

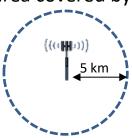
Radius = Diameter \div 2 = $7 \div 2 = 3.5$ m

Working out

Area = $\pi r^2 = \pi \times 3.5^2$ = $\pi \times 12.25 = 38.5$ square m

Area of the flower bed is 38.5 square yards.

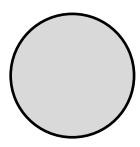
 A cell phone mast has a range of 5km in all directions. Work out the area covered by one mast.



Area = $\pi r^2 = \pi \times 5^2$ = $\pi \times 25 = 78.5$ square km

Area covered by the mast is 78.5 km².

3) A circular mirror has an area of 144⊓ square cm. What is the diameter of the mirror?



The diameter of the mirror is 24 cm.

Area = πr^2 = 144 π If we divide both sides of the equation by π , we get r^2 = 144 So $r = \sqrt{144} = 12$ cm If the radius is 12 inches, then the diameter must be double this which is 24 cm.

