

Area of a Circle

Fill in the blanks and follow along using this sheet!

1. Mei Ling has a circular mirror in her bedroom. The radius of the mirror is 20.5.

You are given the radius. You need to find the area.

Use the formula for the area of a circle $A = \pi \times r^2$

The radius is 20.5 cm.

$$A = \pi \times r^2$$

$$A = 3.14 \times \underline{\hspace{2cm}}$$

$$A = 3.14 \times \underline{\hspace{2cm}} \times \underline{\hspace{2cm}}$$

$$A = \underline{\hspace{2cm}}$$

2. Jason is cutting a circular hole to go ice fishing. If the diameter of the circle is 25 cm, what is the area of the circle?

You are given the diameter. You need to find the radius and then find the area.

$$A = ? , d = 25 \text{ cm}, r = ?$$

We need to find the radius. We know the radius is half the diameter.

$$r = 25 \div 2$$

$$r = \underline{\hspace{2cm}}$$

The radius is .

Let's find the Area.

$$A = \pi \times r^2$$

$$A = \underline{\hspace{1cm}} \times \underline{\hspace{1cm}}$$

$$A = \underline{\hspace{1cm}} \times \underline{\hspace{1cm}} \times \underline{\hspace{1cm}}$$

$$A = \underline{\hspace{2cm}}$$

Area of the circle is .