## 7.G.4: Worksheet

1. What's the area of a circle with a diameter of 24 in?
2. What's the area of a circle with a diameter of 5 m ?
3. Jamie lives in a super weird house - her bedroom is in the shape of a semicircle. She needs to buy new carpet for the whole room. If her straight wall is 14 feet long, how much carpet will she need?
4. What's the radius of a circle with a circumference of $15 \pi \mathrm{~cm}$ ?
5. What's the area of a circle with a circumference of $12 \pi$ in?
6. What's the circumference of a circle with an area of $9 \mathrm{ft}^{2}$ ?
7. What's the perimeter of the shape in Figure 1?


Figure 1.
8. Tom accidentally burned a perfectly circular black spot into his wall when he lost control of a frying pan. If the burn mark is exactly $18 \pi$ inches around its outside, how much paint will he need to cover the whole thing?
9. If a circular porthole on a ship uses $49 \pi$ in $^{2}$ of glass, how far across is the porthole?
10. What's the perimeter of a semicircle with a diameter of 32 m ?

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