

SPORAL

NAME:

7th grade

Evaluate the expressions for the given value of the variable.

1) $-x^2 - x$
when $x = 1$

2) $-x - x$ when $x = -1$

3) $2(x - y)^2$ when
 $x = -4$ and $y = 6$

4) $3 + 4(x + 3)^2$ when
 $x = -1$

5) $5 + 5(y + z)^3$ when
 $y = 1$ and $z = -2$

6) $6x^2 + x$ when
 $x = -3$

Simplify the radicals.

1) $\sqrt{50}$

2) $\sqrt{44}$

3) $\sqrt{90}$

4) $\sqrt{60}$

5) $\sqrt{48}$

6) $\sqrt{25}$

7) $\sqrt{10}$

8) $\sqrt{80}$

9) $\sqrt{75}$

10) $\sqrt{72}$

Find the area. Don't forget units. r = radius
 d = diameter

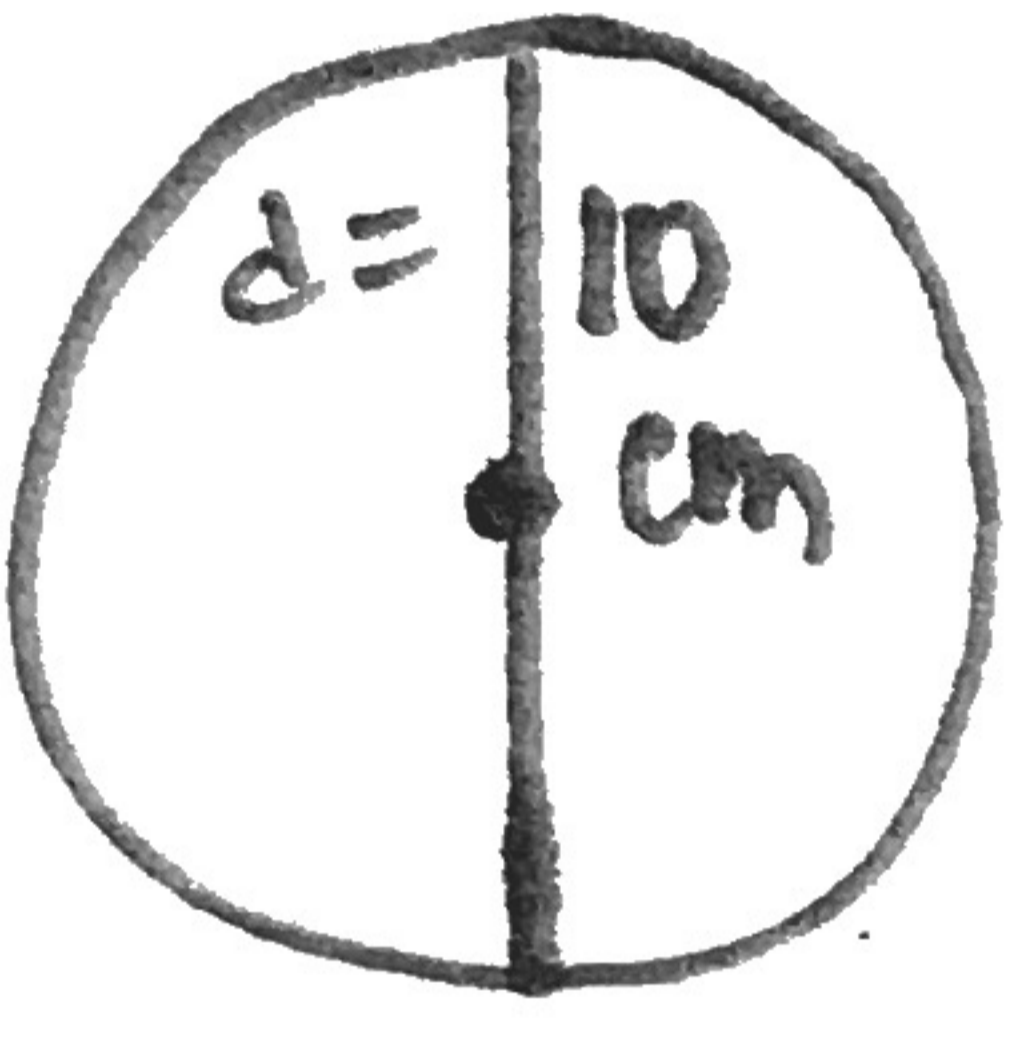
1)



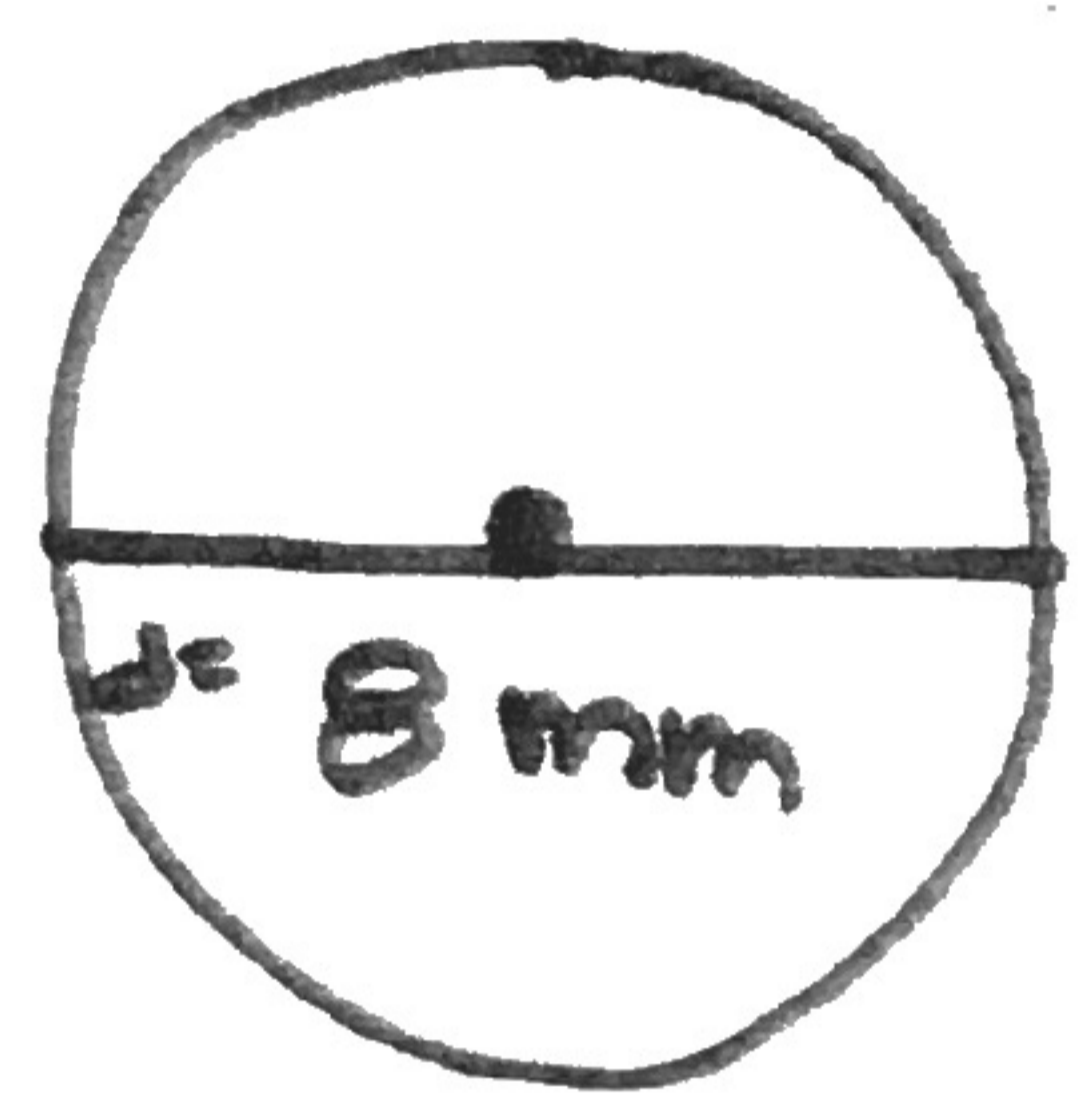
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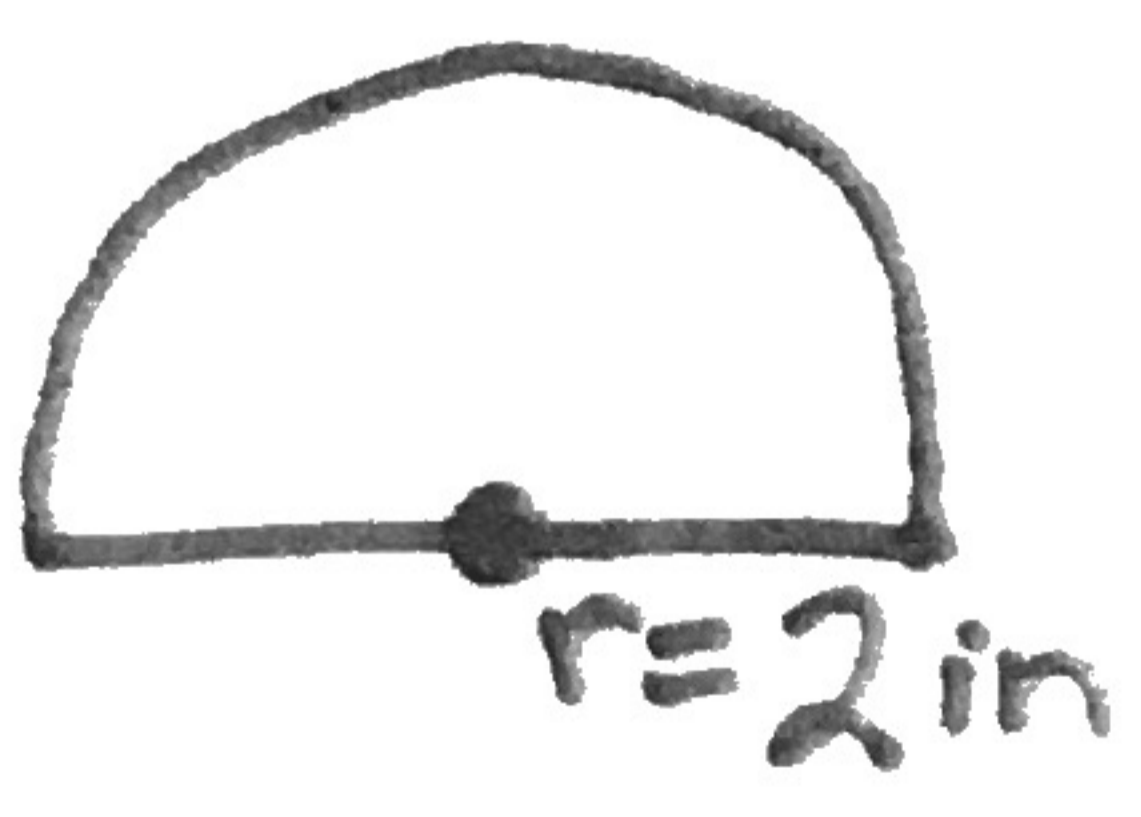
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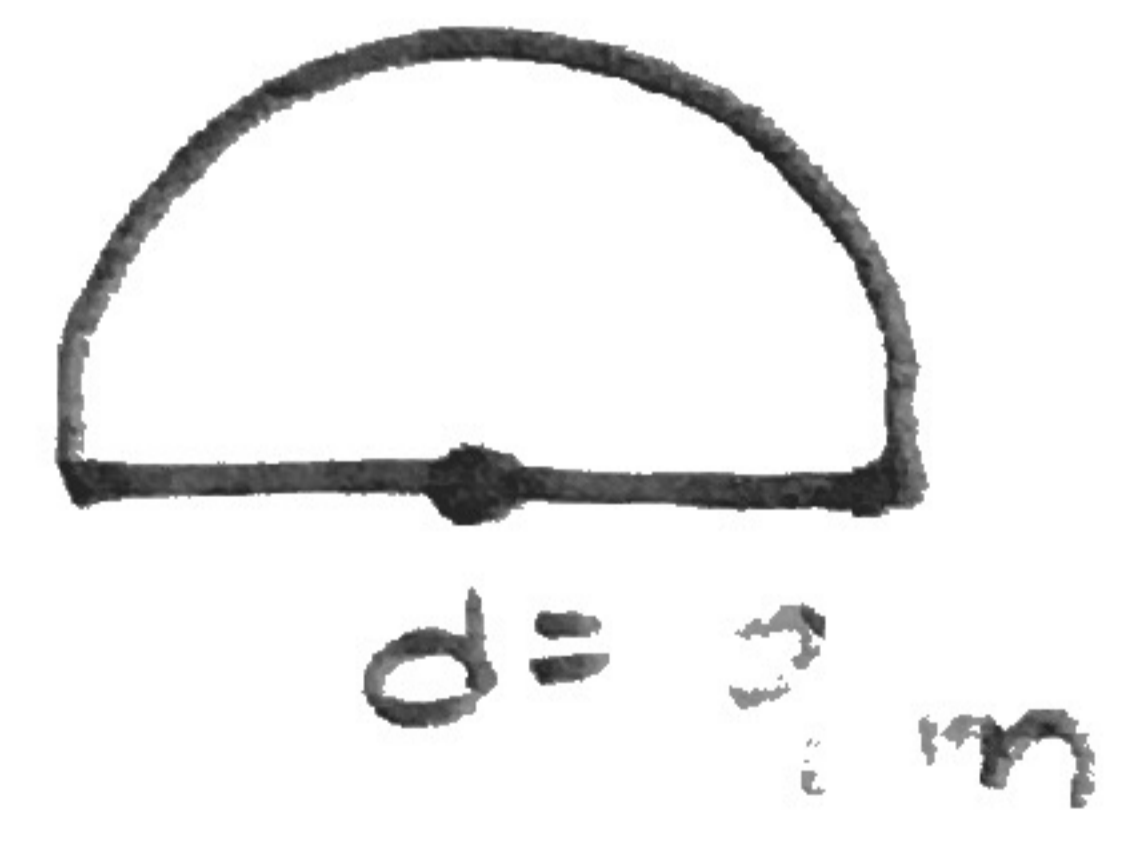
4)



5)



6)



Simplify. Leave no negative exponents.

1) $c^2 \cdot c^5$

2) $c^{-7} \cdot c^4$

3) $c^4 \cdot c^{-9}$

4) $\frac{c^2}{c^3}$

5) $\frac{c^9}{c^4}$

6) $\frac{c^4}{c}$

7) $(c^5)^2$

8) $(c^{-1})^2$

9) $(c^{-3})^{-4}$

10) c^0

11) $(abcde)^0$