

Area of a Circle

Find the area of each of the following circles:

Remember:

Area of a circle = pi times radius squared

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

Use 3.14 as the value of pi for these problems.

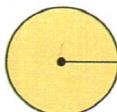
1.



radius = 3 in.

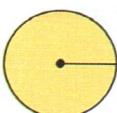
$$\begin{aligned}A &= \pi \times r^2 \\A &= 3.14 \times 3 \times 3 \\A &= 28.26 \text{ in.}^2\end{aligned}$$

2.



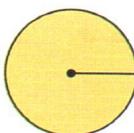
radius = 4 in.

3.



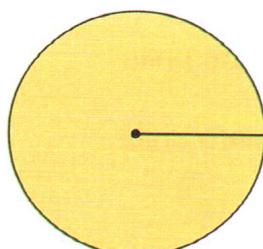
radius = 6 cm

4.



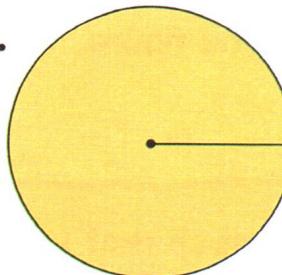
radius = 7 cm

5.



radius = 9 in.

6.



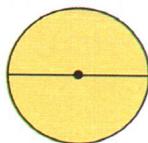
radius = 10 in.

7.



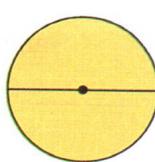
diameter = 4 cm

8.



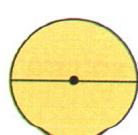
diameter = 10 in.

9.



diameter = 16 cm

10.



diameter = 9 in.

Skills:

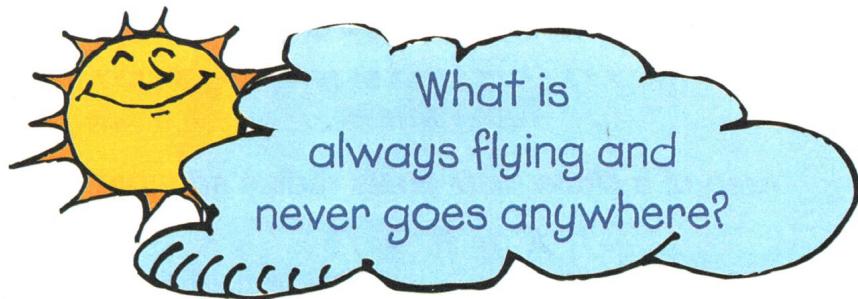
Finding the Area of a Circle

Math Recipes

Skills:

Finding the Area of a Circle

A Riddle



To solve the riddle, find the area of each circle below. After you have computed each area, write the letter that corresponds to the area on the line below the figure. The letters spell out the solution to the riddle.

Remember that you can use the following formula to find the area of a circle:

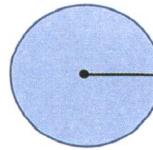
Area of a circle = pi times radius squared

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

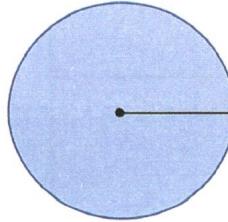
Use 3.14 as the value of pi for these problems.



radius = 2



radius = 4



radius = 6



diameter = 4



radius = 5

- A** 12.56 square units
- B** 28.26 square units
- F** 50.24 square units
- G** 78.5 square units

- L** 113.04 square units
- M** 153.86 square units
- S** 200.96 square units

Circumference of a Circle

Find the circumference (distance around) each circle.

Skills:

Finding the Circumference of a Circle

Use these formulas:

If you know the diameter, use

$$C = \pi \times d$$

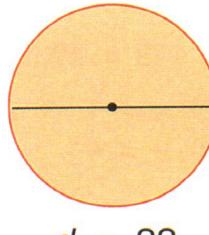
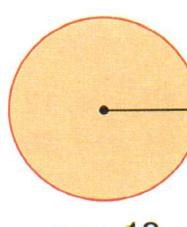
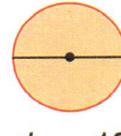
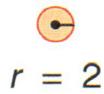
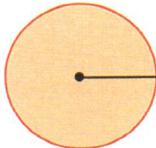
Circumference = pi times diameter

If you know the radius, use

$$C = 2\pi \times r$$

Circumference = 2 times pi times radius

Use 3.14 as the value of pi for these problems.

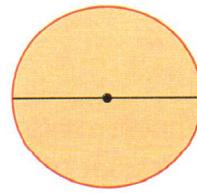
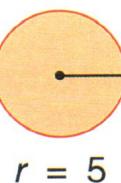
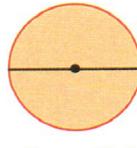
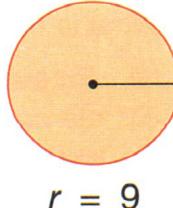
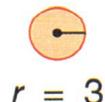
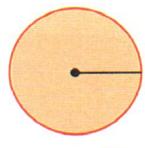


$$C = 2 \times \pi \times r$$

$$C = 2 \times 3.14 \times 8$$

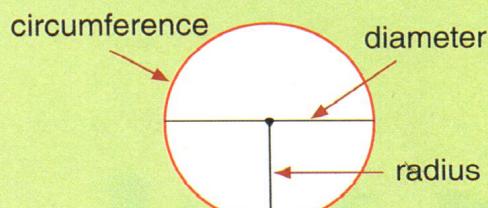
$$C = 50.24$$

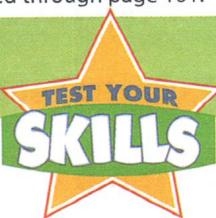
1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____



7. _____ 8. _____ 9. _____ 10. _____ 11. _____ 12. _____

Remember:





Fill in the circle next to the correct answer.

1. $x - 7 = 23$

- (A) $x = 7$ (C) $x = 23$
(B) $x = 16$ (D) $x = 30$

2. $8y = 24$

- (A) $y = 2$ (C) $y = 24$
(B) $y = 3$ (D) $y = 192$

3. $x \div 3 = 12$

- (A) $x = 1$ (C) $x = 12$
(B) $x = 4$ (D) $x = 36$

4. $3^2 = \underline{\hspace{1cm}}$

- (A) 6 (C) 5
(B) 9 (D) 15

5. $2^3 = \underline{\hspace{1cm}}$

- (A) 2 (C) 6
(B) 4 (D) 8

6. What formula is used to figure the perimeter of a flat shape?

- (A) length \times height \times width
(B) $3.14 \times r^2$
(C) $2 \times \text{width} + 2 \times \text{length}$
(D) length \times height

7. What formula is used to figure the area of a square or rectangle?

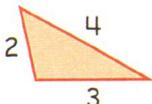
- (A) length \times height \times width
(B) $3.14 \times r^2$
(C) $2 \times \text{width} + 2 \times \text{length}$
(D) length \times height

8. What formula is used to figure the volume of a cube or rectangular prism?

- (A) length \times height \times width
(B) $3.14 \times r^2$
(C) $2 \times \text{width} + 2 \times \text{length}$
(D) length \times height

9. What is the perimeter of this triangle?

- (A) 14
(B) 9
(C) 8
(D) 54



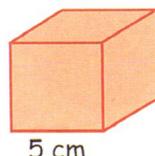
10. What is the area of this square?

- (A) 16 square units
(B) 15 square units
(C) 8 square units
(D) 7.5 square units



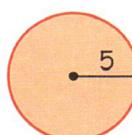
11. What is the volume of this cube?

- (A) 25 cubic centimeters
(B) 125 cubic centimeters
(C) 100 cubic centimeters
(D) 30 cubic centimeters



12. What is the area of this circle?

- (A) 78.5 square units
(B) 15.7 square units
(C) 31.4 square units
(D) 69 square units



It's a Fact

Hawai'i was the 50th state admitted to the United States of America. In fact, it was the last state. To find the capital city of Hawai'i, solve these problems. Then write the corresponding letter in the box above the answer. The letters will spell out the capital of Hawai'i.

Skills:

Adding
Negative
and Positive
Numbers

H $-6 + +9 =$ _____



L $+9 + -2 =$ _____

L $-3 + -12 =$ _____

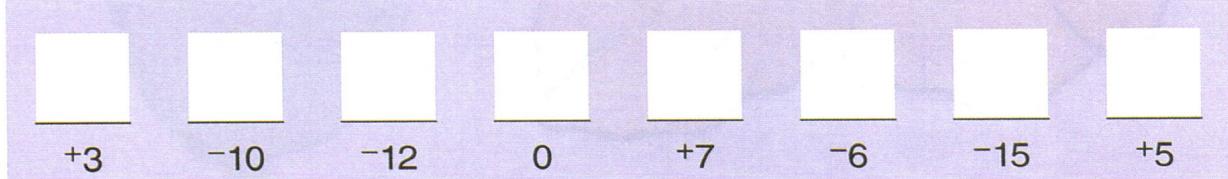
N $-4 + -8 =$ _____

O $+7 + -7 =$ _____

O $-6 + -4 =$ _____

U $-8 + +2 =$ _____

U $+11 + -6 =$ _____



Remember:

To add two numbers with the **same** sign:

- Add the numbers together and use the common sign.

$$-2 + -4 = -6$$

To add two numbers with **different** signs:

- Subtract the smaller number from the larger number.
- Use the sign of the larger number for the answer.

$$-6 + +2 = -4$$

Aloha

Ordering Mixed Numbers

Skills:

Locating Points
on a Number
Line

Ordering
Fractions and
Decimals

Plot each of the following points on the number line. Label each point with the corresponding letter. The letters will spell out the Hawaiian name for the state flower (a type of hibiscus).

