

Topics to review:

- Properties of quadrilaterals

Problem 1

A quadrilateral is any closed shape that has 4 sides.

- (A) True
- (B) False

A parallelogram is a quadrilateral with 2 pairs of parallel sides.

- (A) True
- (B) False

A triangle is a quadrilateral.

- (A) True
- (B) False

This shape is a trapezoid and a quadrilateral.

- (A) True
- (B) False



A rectangle is also a rhombus.

- (A) True
- (B) False

A square is also a rectangle.

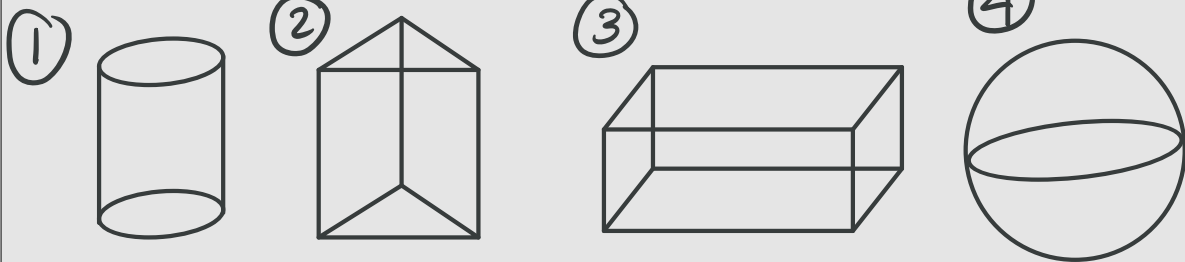
- (A) True
- (B) False

Topics to review:

- Recognizing common 3D shapes

Problem 2

Match the 3D shapes with their correct name.



• Sphere • Cylinder • Rectangular Prism • Triangular Prism

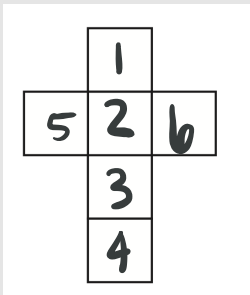
Topics to review:

- Nets - 2D representations of 3D shapes

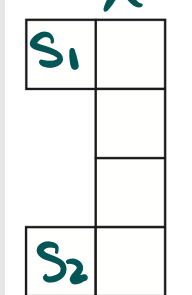
Problem 3

Which nets will fold to make a cube?

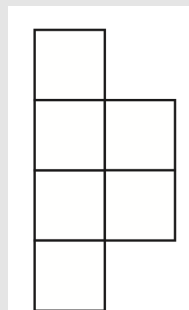
1 ✓



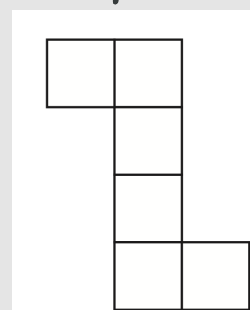
2 ✗



3

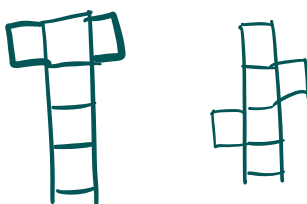


4 ✓



Draw another version of a net that will fold to make a cube (that is not shown above).

6 surfaces in a cube

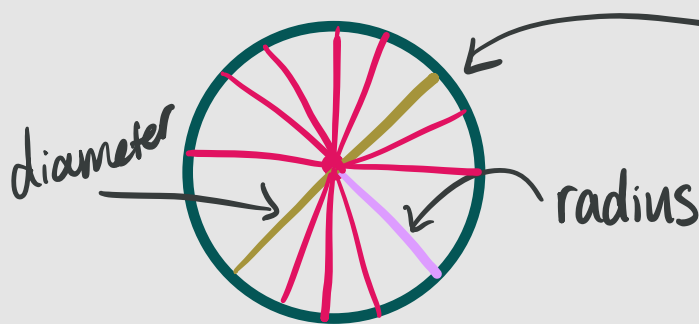


Topics to review:

- Circles - center, radius, diameter, and circumference

Problem 4

Draw a circle and label the center, radius, diameter, and circumference.



$$\pi = 3.14 \dots$$

$$\pi \approx 3.14$$

Answer the following questions about circles:

- (1) The length of the outer part of a circle is called the: **Circumference**
 - ~~*~~(2) The distance from the center to the outer part is called the: **Radius**
 - (3) If the radius of a circle is length 9, what is the length of the diameter? **18**
 - (4) If we are given the length of the diameter, which operation can we apply to get the length of the radius? **Take half of the diameter**
 - (5) How many radii (plural of radius) does a circle have?
Infinitely Many!
- $$\frac{1}{2} * 18 = 9$$

Problem 5

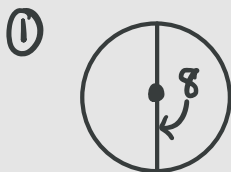
$$C = 2\pi r$$

r d

$$C \quad 18 \div 2 = 9$$

What is the radius, diameter, and circumference of each of the circles?

Note: Circumference equals 2π times the radius ($C=2\pi r$).



①

$$d = 8$$

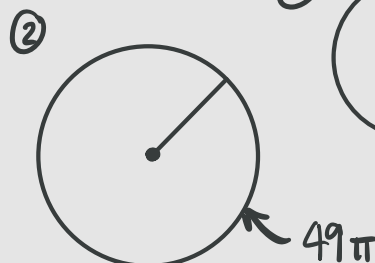
$$r = 4$$

$$C = 2\pi r$$

$$= 2\pi 4$$

$$= 2 \cdot 4 \cdot \pi$$

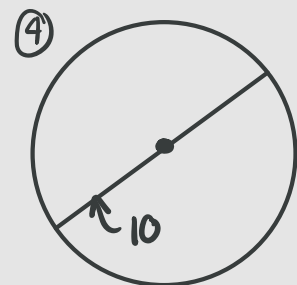
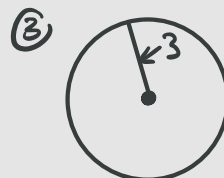
$$= 8\pi$$



$$d = 49$$

$$r = 24.5$$

$$C = 49\pi$$



$$\sqrt{49} = 7$$

$$= 8 \cdot \pi$$

$$= \boxed{8} \pi$$

"left in terms of pi" \rightarrow Answer is going to have π in it

$$\textcircled{3} \quad d = 6$$

$$r = 3$$

$$C = 6\pi = 3 \cdot 2 \cdot \pi$$

$$d = 2r, \quad r = \frac{d}{2} = d \cdot \frac{1}{2}$$

$$\frac{d}{2} = \frac{2r}{2} = 1 \cdot r = r$$

Apply the inverse operation
Mult/Div Add/Sub

$$\frac{d}{2} = r$$

$$2 \cdot \frac{d}{2} = r \cdot 2$$

$$d = r2$$