Circle Review Pack



- 1. Match the following terms with the correct definition.

A. Part of a circle defined by a chord or 2 radii.

Chord

B. Part of the circumference.

Diameter

C. The longest chord.

Disc

D. A line segment with one endpoint at the center of a circle and the other at any given point on the circle.

Radius

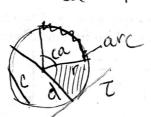
E. An area of a plane, which includes a circle and its inner surface.

Sector

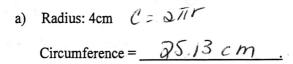
F. A line segment joining any two points on a circle.

- Tangent
- S. A segment that only touches one point on the circle.
- 2. Label the following:

Central angle, radius, diameter, chord, arc, tangent, and sector.



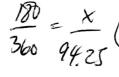
- 3. What is the radius of a circle if it has a diameter of 8cm? 4cm. What is the central angle that intercepts an arc that is one fifth of a circle? 360/5
- 4. Calculate the following:



- b) C = 18.84 km = 2.77Radius = $\frac{C}{2\pi}$ $\frac{2.99 \text{ km}}{2}$
- c) D = 28m = 14Area = $\pi r^2 = 615$, $75m^2$
- d) Area is $157.08 \text{cm}^2 \sqrt{\frac{A}{T}} = \Gamma = 7.07$ Diameter =



8 cm f) Sector = $36 - \chi$



$$\frac{180}{360} = \frac{x}{9425} \left(x = 47.12cm \right)$$

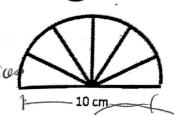
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Circle Review Pack Cont'd



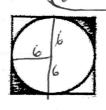
5. Half of a pizza remains in the fridge. It is in a shape of a semicircle. If the pizza

includes 6 equal slices, what is the area of each slice?

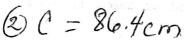


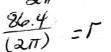
6. A circle with a radius of 6cm is inscribed in a square. What is the area of the shaded region? $= \int \int_{-\infty}^{\infty} \int_{-\infty}$

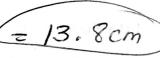
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ace so beginning	2	The Control of Control of the Contro	
13×13	- TT(6)	2, 0, 5	
144	- 113.1	= (36.9 cm	-



7. The crust of a pizza slice measures 14.4cm. The slice portion corresponds to a central angle of 60°. Calculate

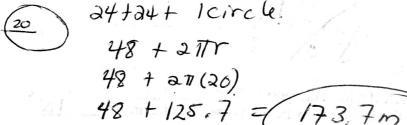


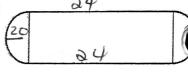




7. The crust of a pizza since the radius of the pizza.

(1) $\frac{60^{\circ}}{360^{\circ}} = \frac{14.4 \text{cm}}{\text{circumferente cm}}$ (2) $\frac{C}{2\pi} = \Gamma$ (3) $\frac{C}{2\pi} = \Gamma$ (4) $\frac{26.4}{(2\pi)} = \Gamma$ (5) $\frac{26.4}{(2\pi)} = \Gamma$ (6) $\frac{26.4}{(2\pi)} = \Gamma$ (7) $\frac{26.4}{(2\pi)} = \Gamma$ (8) $\frac{26.4}{(2\pi)} = \Gamma$ (9) $\frac{26.4}{(2\pi)} = \Gamma$ (1) $\frac{26.4}{(2\pi)} = \Gamma$ (2) $\frac{26.4}{(2\pi)} = \Gamma$ (3) $\frac{26.4}{(2\pi)} = \Gamma$ (3) $\frac{26.4}{(2\pi)} = \Gamma$ (4) $\frac{26.4}{(2\pi)} = \Gamma$ (5) $\frac{26.4}{(2\pi)} = \Gamma$ (6) $\frac{26.4}{(2\pi)} = \Gamma$ (7) $\frac{26.4}{(2\pi)} = \Gamma$ (8) $\frac{26.4}{(2\pi)} = \Gamma$ (9) $\frac{26.4}{(2\pi)} = \Gamma$ (10) $\frac{26.4}{(2\pi)} = \Gamma$ (11) $\frac{26.4}{(2\pi)} = \Gamma$ (12) $\frac{26.4}{(2\pi)} = \Gamma$ (23) $\frac{26.4}{(2\pi)} = \Gamma$ (24) $\frac{26.4}{(2\pi)} = \Gamma$ (25) $\frac{26.4}{(2\pi)} = \Gamma$ (26) $\frac{26.4}{(2\pi)} = \Gamma$ (27) $\frac{26.4}{(2\pi)} = \Gamma$ (28) $\frac{26.4}{(2\pi)} = \Gamma$ (28) $\frac{26.4}{(2\pi)} = \Gamma$ (29) $\frac{26.4}{(2\pi)} = \Gamma$ (20) $\frac{26.4}{(2\pi)} = \Gamma$ (20) $\frac{26.4}{(2\pi)} = \Gamma$ (20) $\frac{26.4}{(2\pi)} = \Gamma$ (21) $\frac{26.4}{(2\pi)} = \Gamma$ (22) $\frac{26.4}{(2\pi)} = \Gamma$ (23) $\frac{26.4}{(2\pi)} = \Gamma$ (24) $\frac{26.4}{(2\pi)} = \Gamma$ (25) $\frac{26.4}{(2\pi)} = \Gamma$ (26) $\frac{26.4}{(2\pi)} = \Gamma$ (27) $\frac{26.4}{(2\pi)} = \Gamma$ (28) $\frac{26.4}{(2\pi)} = \Gamma$ (29) $\frac{26.4}{(2\pi)} = \Gamma$ (20) $\frac{26.4}{(2\pi)} = \Gamma$ (21) $\frac{26.4}{(2\pi)} = \Gamma$ (21) $\frac{26.4}{(2\pi)} = \Gamma$ (22) $\frac{26.4}{(2\pi)} = \Gamma$ (23) $\frac{26.4}{(2\pi)} = \Gamma$ (24) $\frac{26.4}{(2\pi)} = \Gamma$ (25) $\frac{26.4}{(2\pi)} = \Gamma$ (26) $\frac{26.4}{(2\pi)} = \Gamma$ (27) $\frac{26.4}{(2\pi)} = \Gamma$ (28) $\frac{26.4}{(2\pi)} = \Gamma$ 8. A track field is composed of a rectangle with a length of 24m and two semicircles at its ends. The radius of





9. A circle has an arc of 10cm intercepted with a 40° angle. Find the area of this sector.

$$9 \frac{40^{\circ}}{360^{\circ}} = \frac{\times \text{cm}^{2}}{644 \text{ bcm}^{2}}$$

$$5 \times = 71.6 \text{ cm}^{2}$$

9. A circle has an arc of 10cm intercepted with a 40° angle. Find the area of this sector.

(1)
$$\frac{40^{\circ}}{360^{\circ}} = \frac{10 \text{ cm}}{644 \text{ bcm}^2}$$

(2) $C = 90 \text{ cm}$

(3) $C = r = \frac{90}{2\pi} = 14.3 \text{ cm}$

Area = πr^2

(4) $C = r^2$

10. Complete the chart below and then on the right, construct a circle graph using this data.

Pizza topping	# of people	%	Angle size
All Dressed	11	44	158.40
Vegetarian	8	32	115.2
Cheese	4	16	57.6°
Hawaiian	2	8	28.8°
TOTAL	25	100	3600

Practice constructions (go over lesson 29) on a separate sheet of paper.