

Name: \_\_\_\_\_

Grade 7 Unit 4- REVIEW for Test WS •  
Measurement 

1. What is the name of a quadrilateral that has opposite sides that are parallel and equal, angle inside is  $90^\circ$ : (Special parallelogram)

2.

3. What is the name of a quadrilateral that has opposite sides that are parallel and equal, angle inside is NOT  $90^\circ$ :



4. a) A circle has a diameter of 36 cm. What is the length of the radius?

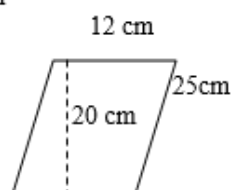
b) A circle has a radius of 20 cm. What is the length of the diameter?

5. What is the circumference of a circle that has a radius of 12 cm?

6. The area of a triangle is  $84 \text{ cm}^2$ . If the base of the triangle is 6 cm, what is the height?

7. What would be the best **estimate** of the area of a circle with a diameter of 10 cm? (This is Multiple choice, But show work)
- (a) 30 cm                      (b) 75 cm<sup>2</sup>                      (c) 300 cm<sup>2</sup>                      (d) 60 cm

8. What is the perimeter of the parallelogram to the right?



9. The wheels of Dave's Truck each have a diameter of 1.4 m. How far does the Truck travel in 10 complete turns?
10. A) What is the area of a circle with a radius of 15 cm?
- B) What is the area of a circle with diameter of 6 cm?
11. What is the area of the parallelogram in question # 8?

2. Find the **circumference and area** of when given the following.

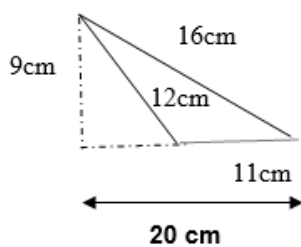
(a) radius = 26 cm  
Cir =

(b) diameter = 12cm  
Cir =

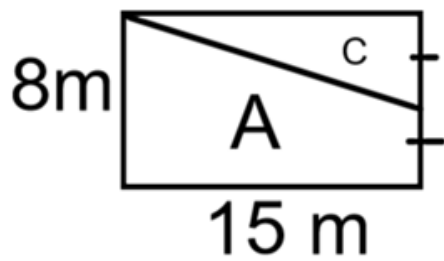
Area =

Area =

3. Find the area of each shape. (Show your formulas and work)



4. What is the area of the C and A

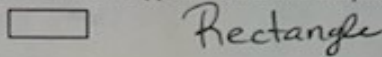


- b) If it cost \$1.35/m<sup>2</sup> then what would it cost to paint just shape "A" area?

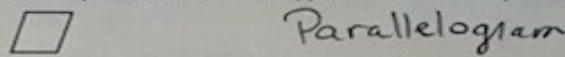
Name: Key

Grade 7 Unit 4- REVIEW for Test WS  
Measurement

1. What is the name of a quadrilateral that has opposite sides that are parallel and equal, angle inside is 90°: (Special parallelogram)



3. What is the name of a quadrilateral that has opposite sides that are parallel and equal, angle inside is NOT 90°:



4. a) A circle has a diameter of 36 cm. What is the length of the radius?

$$r = \frac{d}{2} = \frac{36 \text{ cm}}{2} = 18 \text{ cm}$$

b) A circle has a radius of 20 cm. What is the length of the diameter?

$$d = 2r = 2 \times 20 \text{ cm} = 40 \text{ cm}$$

5. What is the circumference of a circle that has a radius of 12 cm?

$$C = 2\pi r \\ = 2 \times 3.14 \times 12 \text{ cm} \\ = 75.36 \text{ cm}$$

6. The area of a triangle is 84 cm<sup>2</sup>. If the base of the triangle is 6 cm, what is the height?

$$h = \frac{2A}{b} = \frac{2(84 \text{ cm}^2)}{6} = \frac{168 \text{ cm}^2}{6 \text{ cm}} = 28 \text{ cm}$$

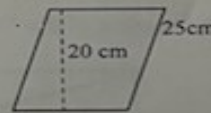
7. What would be the best estimate of the area of a circle with a diameter of 10 cm? (This is Multiple choice, But show work)

- (a) 30 cm      (b) 75 cm<sup>2</sup>      (c) 300 cm<sup>2</sup>      (d) 60 cm

$$A = \pi r^2 \\ = 3.14 \times 5^2 \\ = 3.14 \times 25 \\ = 78.5 \text{ cm}^2$$

8. What is the perimeter of the parallelogram to the right?

$$P = S + S + S + S \\ = 12 \text{ cm} + 25 \text{ cm} + 12 \text{ cm} + 25 \text{ cm} \\ = 74 \text{ cm}$$



9. The wheels of Dave's Truck each have a diameter of 1.4 m. How far does the Truck travel in 10 complete turns?

$$C = \pi d \\ = 3.14 \times 1.4 \text{ m} \\ = 4.396 \text{ m} \quad \times 10 \text{ times} \Rightarrow 43.96 \text{ m travelled}$$

10. A) What is the area of a circle with a radius of 15 cm?

$$A = \pi r^2 \\ = 3.14 \times 15 \text{ cm} \times 15 \text{ cm} \\ = 706.5 \text{ cm}^2$$

B) What is the area of a circle with diameter of 6 cm?

$$r = 3 \text{ cm} \\ A = \pi r^2 \\ = 3.14 \times 3 \text{ cm} \times 3 \text{ cm} \\ = 28.26 \text{ cm}^2$$

11. What is the area of the parallelogram in question # 8?

$$A = b \times h \\ = 20 \text{ cm} \times 12 \text{ cm} \\ = 240 \text{ cm}^2$$

2. Find the circumference and area of when given the following.

(a) radius = 26 cm

$$\text{Cir} = 2\pi r$$

$$2 \times 3.14 \times 26 \text{ cm}$$

$$= 163.28 \text{ cm}$$

$$\text{Area} = \pi \times r \times r$$

$$3.14 \times 26 \text{ cm} \times 26 \text{ cm}$$

$$= 2122.64 \text{ cm}^2$$

(b) ~~radius~~ diameter = 12 cm  $r = 6 \text{ cm}$

$$\text{Cir} = \pi d$$

$$3.14 \times 12 \text{ cm}$$

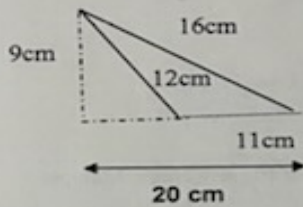
$$= 37.68 \text{ cm}$$

$$\text{Area} = \pi \times r \times r$$

$$3.14 \times 6 \text{ cm} \times 6 \text{ cm}$$

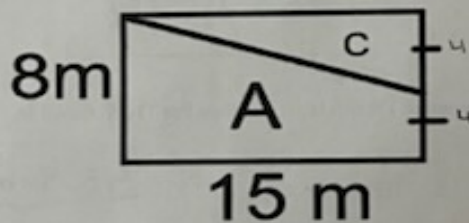
$$= 113.04 \text{ cm}^2$$

3. Find the area of each shape. (Show your formulas and work)



$$A = \frac{b \times h}{2} = \frac{11 \text{ cm} \times 9 \text{ cm}}{2} = \frac{99 \text{ cm}^2}{2} = 49.5 \text{ cm}^2$$

4. What is the area of the C and A



$$A_{\square} = b \times h$$

$$= 8 \text{ m} \times 15 \text{ m}$$

$$= 120 \text{ m}^2$$

$$A_{\Delta} = \frac{b \times h}{2}$$

$$= \frac{15 \text{ m} \times 4 \text{ m}}{2}$$

$$= \frac{60 \text{ m}^2}{2}$$

$$= 30 \text{ m}^2$$

$$A_A = \square - \Delta$$

$$= 120 \text{ m}^2 - 30 \text{ m}^2$$

$$= 90 \text{ m}^2$$

b) If it cost \$1.35/m<sup>2</sup> then what would it cost to paint just shape "A" area?

$$90 \text{ m}^2 \times \$1.35/\text{m}^2 = \$121.50$$

## Attachments

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gr 7 u4 measurement test REVIEW WS (similar to test).doc