

Perimeter

The perimeter is the distance around an object.

Per. of Square

$4S$

$S=4''$

$4'' + 4'' + 4'' + 4''$
 $S1 + S2 + S3 + S4$
 $= 16''$
 $4 \times 4'' = 16''$

P of Rectangle

$2L + 2W$

$2(7) + 2(3)$

or
 $14 + 6 = 20$

$L=7$
 $W=3$

$L + L + W + W$

$7 + 7 + 3 + 3 = 20$



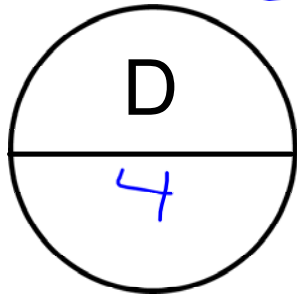
Perimeter of a Circle π 3.1415

Also known as Circumference

$$C = \pi D$$

$$C = 3.14 \times 4$$

$$C = 12.56$$

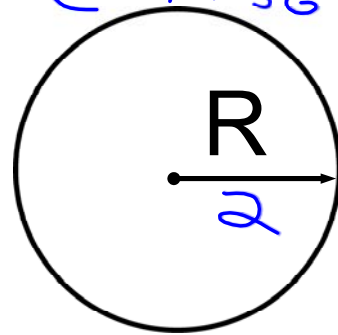


or

$$2\pi R$$

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

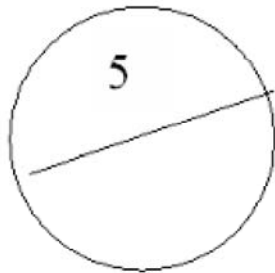
$$C = 12.56$$




Perimeter - 2 -

Find perimeter

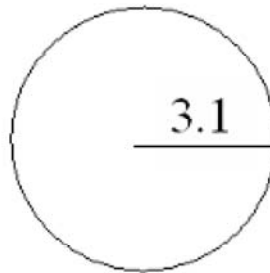
ex




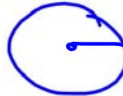
DIAMETER 

$$3.14 \times 5 =$$
$$A = 15.7 \text{ (in)};$$

ex



RADIUS 

$$2 \times 3.14 \times 3.1 =$$
$$A = 19.5$$




Perimeter - 3 -

ex Bike wheel has a radius of 25 cm.

(a) Find the circumference of the wheel

$$2 \times 3.14 \times 25 = 157 \text{ cm}$$

(b) How far will the bike go when the wheel makes 1 turn?

$$157 \text{ cm}$$

(c) How far will the bike travel after 8 complete turns?

$$8 \times 157 = 1256 \text{ cm}$$

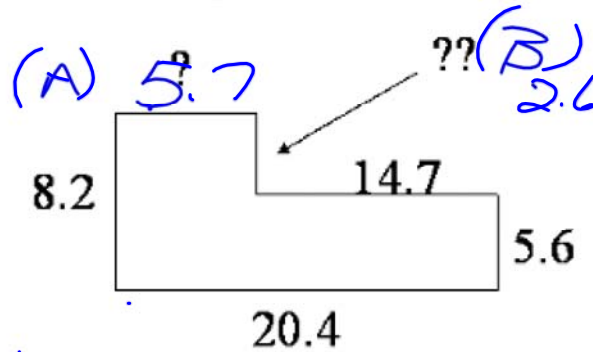
(d) If the bike travels 1 km (= 100 000 cm) how many complete turns did the wheel make?

$$100000 \div 157 = 636 \text{ REVOLUTIONS}$$

- (a) 157.07 cm
 (b) 157.07 cm
 (c) 1256.6 cm
 (d) 636 or 637 turns

Perimeter - 4 -

- ex (a) Find the missing side(s)
 (b) Find the perimeter



5.7
 2.6
 14.7
 5.6
 20.4
 8.2

 57.2

(A) $20.4 - 14.7 = 5.7$
 B $8.2 - 5.6 = 2.6$

(a) ? = $20.4 - 14.7$
 = 5.7

?? = $8.2 - 5.6$
 = 2.6

(b) P = $8.2 + 5.7 + 14.7 + 5.6 + 20.4$
 = 54.6