



Warm up Grade 6

Date: _____



1) Give 3 numbers between 3.0047 and 3.0045
 3.0046

3.00451
 3.00452
 3.00453
 3.00454

2) Estimate the product or quotient. Which strategy did you use? Tell if your estimation is an overestimation or an underestimation.

a) 6.53×4 **Benchmark**
 $7 \times 4 = 28$
Over estimation

Front end
 $6 \times 4 = 24$
Under estimate

b) $54.97 \div 5$ **or** $60 \div 5 = 12$
 $55 \div 5 = 11$ **Over estimate**

Homework Solutions

Practice

1. Estimate each product or quotient. Which strategies did you use?

Tell if your estimate is an overestimate or an underestimate.

- a) 7.01×9 b) 3.8×7 c) 11.85×5 d) 19.925×4
 e) $9.8 \div 5$ f) $12.31 \div 2$ g) $56.093 \div 7$ h) $225.3 \div 5$

a) Estimate

7×9 *Act*
 $= 63$ *63.09*

Under estimation

Front end

b) Estimate

3×7 or
 $= 21$

Under estimation

Front end

Estimate

4×7
 $= 28$

over estimation

bench mark

c) Estimate

11×5
 $= 55$ or

Under estimation

Front end

c) Estimate

12×5
 $= 60$

over estimation

bench mark

d) Estimate

20×4
 $= 80$

over estimation

bench mark

e) $9.8 \div 5$

Estimation

$10 \div 5$
 $= 2$

Bench mark

over estimation

f) $12.31 \div 2$

Estimation

$12 \div 2$
 $= 6$

Bench mark

under estimation

g) $56.093 \div 7$

Estimation

$56 \div 7$
 $= 8$

front end

under estimation

h) $225.3 \div 5$

Estimation

$225 \div 5$
 $= 45$

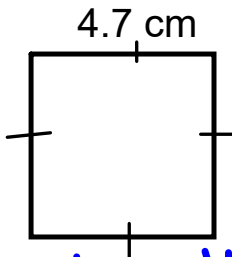
benchmark

under estimation

$=$ actually equal

\approx estimate

- 1) Estimate the perimeter of the square. Tell if your estimate is an overestimate or an under estimate.



perimeter

↳ is going around an object

→ add side length together

Square has 4 equal sides

Perimeter of square = $4 \times$ Side

$$4 \times 4.7 \text{ cm}$$

$$\approx 4 \times 5$$

20 cm estimate

- 2) Estimate the side length of a square with a perimeter of 48.26 cm

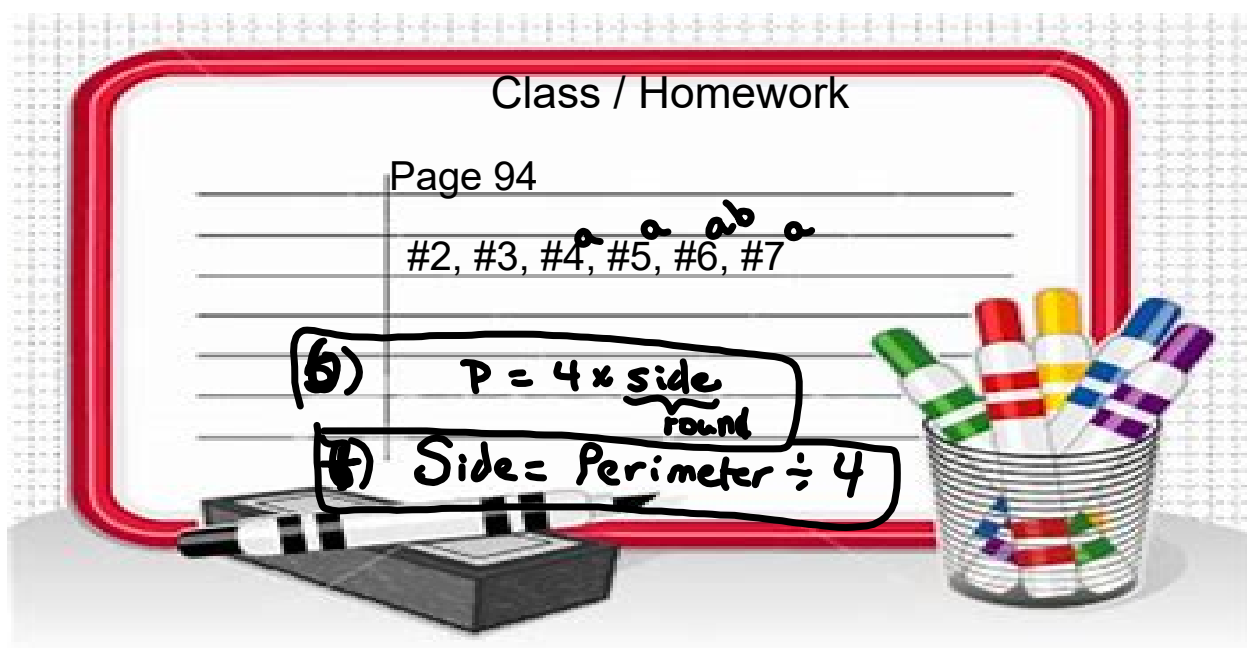
Study

$$\text{Perimeter of square} = 4 \times \text{Side}$$

$$\text{Side of square} = \text{Perimeter} \div 4$$

$$\approx 48 \text{ cm} \div 4$$

$$\approx 12 \text{ cm}$$



Practice

1. Estimate each product or quotient. Which strategies did you use?

Tell if your estimate is an overestimate or an underestimate.

a) 7.01×9

b) 3.8×7

c) 11.85×5

d) 19.925×4

e) $9.8 \div 5$

f) $12.31 \div 2$

g) $56.093 \div 7$

h) $225.3 \div 5$

2. Waldo paid \$29.85 for 3 admission tickets to the Calgary Tower.

Estimate the cost of one admission ticket.

3. A pair of ice cleats for ice fishing costs \$14.89.

About how much will 6 pairs of ice cleats cost?

How did you find out?

4. Estimate the perimeter of each square.

Tell if your estimate is an overestimate or an underestimate.

How do you know?



5. Estimate the side length of a square with perimeter:

- a) 24.2 cm b) 29.8 cm c) 35.6 cm

6. a) Is 9.47×5 greater than, or less than, 45?

How can you estimate to find out?

b) Is $23.86 \div 4$ greater than, or less than, 6?

How can you estimate to find out?

Show your work.

7. Copy and complete. Write $>$, $<$, or $=$.

How did you decide which symbol to use?

- a) 5.6×2 \square 1.4×4 b) $4.8 \div 2$ \square $15.5 \div 5$