



Warm up Grade 6

Date: \_\_\_\_\_



1) Give 3 numbers between 3.0047 and 3.0045

3.00460

3.00455

3.00451

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

a)  $6.53 \times 4$

Front  
 $6 \times 4$   
 24  
 Under

Bench  
 $7 \times 4$   
 28  
 Over

b)  $54.97 \div 5$

55  $\div 5$   
 = 11  
 Over

Bench

Ex)  $47.3 \div 5$

↙  
 $50 \div 5$   
 = 10

↘  
 $45 \div 5$   
 = 9

# 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)  $7.01 \times 9$

b)  $3.8 \times 7$

c)  $11.85 \times 5$

d)  $19.925 \times 4$

e)  $9.8 \div 5$

f)  $12.31 \div 2$

g)  $56.093 \div 7$

h)  $225.3 \div 5$

a) Estimate

$$7 \times 9$$

$$= 63$$

Under estimation

Front end

b) Estimate

$$3 \times 7$$

$$= 21$$

Under estimation

Front end

b) Estimate

$$4 \times 7$$

$$= 28$$

over estimation

bench mark

c) Estimate

$$11 \times 5$$

$$= 55$$

Under estimation

Front end

or

c) Estimate

$$12 \times 5$$

$$= 60$$

over estimation

bench mark

d) Estimate

$$20 \times 4$$

$$= 80$$

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

$$225 \div 5$$

$$= 8$$

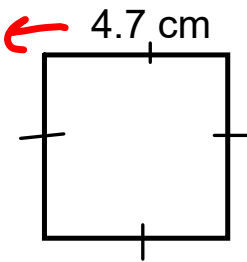
benchmark

under estimation

→ distance around an object

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

Round to 5cm



$$P = \text{side} + \text{side} + \text{side} + \text{side}$$

Or

all side in a square are equal

$$P_{\text{square}} = 4 \times \text{side}$$

$$\approx 4 \times 5\text{cm}$$

The perimeter is about 20cm.

Overestimate since 4.7 was rounded up to 5cm.

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

Square  
Perimeter = 48.26 cm

Square has 4 equal sides

Side = ?

Study

$$P_{\text{square}} = 4 \times \text{Side}$$

$$\text{Side}_{\text{sq}} = \text{Perimeter} \div 4$$

$$= 48 \div 4$$

12 cm

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

Nov. 21

Class / Homework

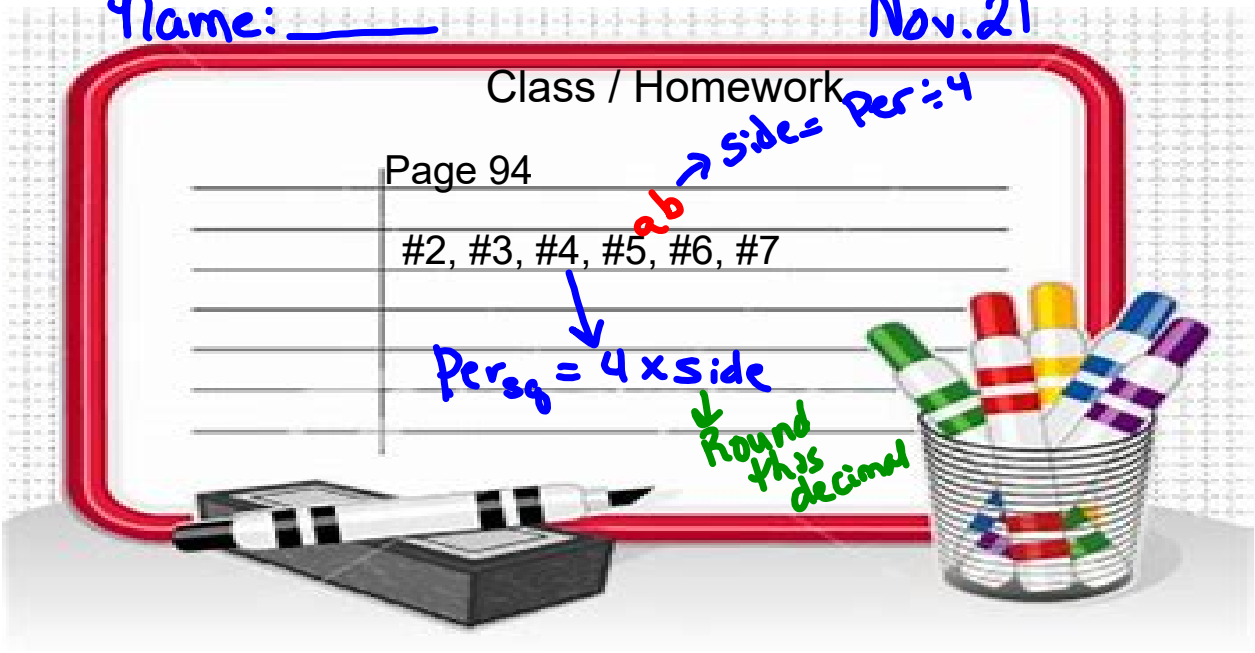
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#2, #3, #4, #5, #6, #7

ab → Side = Per = 4

Per sq = 4 x Side

↓ Round this decimal



**Practice**

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

Tell if your estimate is an overestimate or an underestimate.

- a)  $7.01 \times 9$       b)  $3.8 \times 7$       c)  $11.85 \times 5$       d)  $19.925 \times 4$   
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.

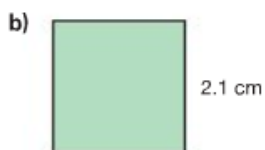
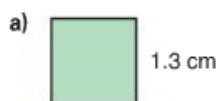
Estimate the cost of one admission ticket.

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  $9.47 \times 5$  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)  $5.6 \times 2$    $1.4 \times 4$       b)  $4.8 \div 2$    $15.5 \div 5$