



Use estimation and rounding

Name: _____

Date: _____

Number and Place Value Use estimation and rounding to check the reasonableness of answers to calculations (VCMNA182)

Understanding

- Place the number 428.673 in the appropriate place value column below.
- Round the numbers to the correct place value description.

Hundreds (100)	Tens (10)	Ones (1)	Tenths (0.1)	Hundredths (0.01)	Thousandths (0.001)

- 45.783 to the nearest tenth. _____
- 7.78375 to the nearest thousandth. _____
- 23.493 to the nearest ten. _____
- 748.94 to the nearest hundred.

- 2.572934 to the nearest hundredth.

Fluency

- Estimate the answer (product) of the following by rounding each number (factor) to the nearest 10.
 - Estimate $23 \times 33 =$ _____
 - Estimate $14 \times 62 =$ _____
 - Estimate $28 \times 39 =$ _____
 - Estimate $17 \times 21 =$ _____
 - Estimate $94 \times 53 =$ _____
 - Estimate $44 \times 66 =$ _____
- Estimate the answers to the following problems by rounding each number to the nearest 10.
 - Estimate $17 + 94 + 68 =$ _____
 - Estimate $26 + 33 + 53 =$ _____
 - Estimate $98 - 27 - 16 =$ _____
 - Estimate $83 - 47 + 11 =$ _____
 - Estimate $37 + 28 + 84 =$ _____
 - Estimate $93 + 57 - 78 =$ _____

Problem Solving

- You are about to purchase the below items at the supermarket.

\$33	\$3.50	\$6	\$88	\$7.20	\$124

- Estimate the total cost of the items by rounding each item to the nearest \$5.
- Work out the exact total of the items.
- What was the difference between your estimate and the exact total?

Reasoning

- Insert the correct equality sign ($<$, $=$ or $>$) to make the following statements true. You could estimate each amount by rounding each number to the nearest 100.
- For each set of decimals, circle the smaller number.

434×112 730×314

184×534 312×270

723×412 639×347

- 7.66 7.62

- 5.7123 5.673

- 2.1540000 2.1539478

- 9.154274 9.154312



Use estimation and rounding

Name: _____

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Number and Place Value Use estimation and rounding to check the reasonableness of answers to calculations (VCMNA182)

Understanding

1. Place the number 428.673 in the appropriate place value column below.

Hundreds (100)	Tens (10)	Ones (1)	Tenths (0.1)	Hundredths (0.01)	Thousandths (0.001)
4	2	8	6	7	3

2. Round the numbers to the correct place value description.

- a) 45.783 to the nearest tenth. 45.8
- b) 7.78375 to the nearest thousandth. 7.784
- c) 23.493 to the nearest ten. 20
- d) 748.94 to the nearest hundred. 700
- e) 2.572934 to the nearest hundredth. 2.57

Fluency

1. Estimate the answer (product) of the following by rounding each number (factor) to the nearest 10.

- a) Estimate $23 \times 33 =$ 600
- b) Estimate $14 \times 62 =$ 600
- c) Estimate $28 \times 39 =$ 1200
- d) Estimate $17 \times 21 =$ 400
- e) Estimate $94 \times 53 =$ 4500
- f) Estimate $44 \times 66 =$ 2800

2. Estimate the answers to the following problems by rounding each number to the nearest 10.

- a) Estimate $17 + 94 + 68 =$ 180
- b) Estimate $26 + 33 + 53 =$ 110
- c) Estimate $98 - 27 - 16 =$ 50
- d) Estimate $83 - 47 + 11 =$ 40
- e) Estimate $37 + 28 + 84 =$ 150
- f) Estimate $93 + 57 - 78 =$ 70

Problem Solving

1. You are about to purchase the below items at the supermarket.

\$33	\$3.50	\$6	\$88	\$7.20	\$124

- a) Estimate the total cost of the items by rounding each item to the nearest \$5.

\$265

- b) Work out the exact total of the items.

\$261.70

- c) What was the difference between your estimate and the exact total?

\$3.30

Reasoning

1. Insert the correct equality sign ($<$, $=$ or $>$) to make the following statements true. You could estimate each amount by rounding each number to the nearest 100.

434×112 730×314

184×534 312×270

723×412 639×347

2. For each set of decimals, circle the smaller number.

a) 7.66

b) 5.7123

c) 2.1540000

d) 9.154312