



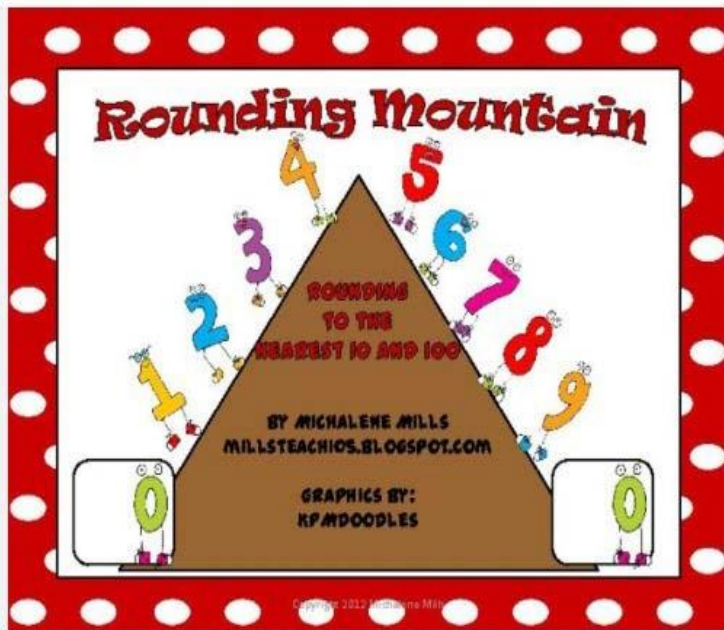
المدرسة وينشستر
The Winchester School

#20yearsofWIN

Subject: Mathematics

Term 1 – Week 4

Topic: Rounding to 10's, 100's and 1000's



Rounding Rules

1. Find the place value and circle the digit.
(Example: If you are rounding to the nearest tens, circle the tens place.)
 1257
2. Move to the right of the circled number and underline that digit.
 1257
3. Zero to four, the circled digit stays the same.
But, five to nine adding 1 is the game.
(In the example, the underlined number is between 5 and 9. So, we need to add 1 to the circled number.)
 1267
4. Now flex your muscles just like a hero. Digits to the right, change to the zero.
 1260
5. All the other numbers, they stay the same.
Yahoo!! you are a winner at the rounding game.

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Rounding Coaster

To the nearest hundred
 $462 \rightarrow 500$

To the nearest ten
 $462 \rightarrow 460$

ROUND DOWN
stays the same

ROUND UP
+1

Find the number.
Look right next door.
Five or higher, add one more.
Four or less, let it rest.
From the arrow on, change to zeros.

Rounding Numbers

A rounded number has about the same value as the starting number, but it is less exact.

Find your place
Look *next door*
5 or greater, add *one more*

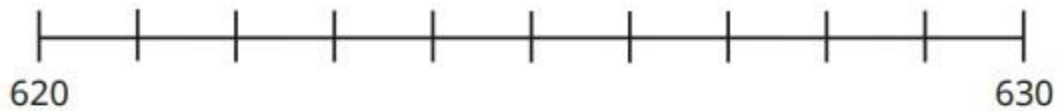
Round to the nearest ten	Round to the nearest hundred
$54 \rightarrow 50$	$415 \rightarrow 400$
$55 \rightarrow 60$	$950 \rightarrow 1000$
$313 \rightarrow 310$	$7261 \rightarrow 7300$
$549 \rightarrow 550$	$7221 \rightarrow 7200$
$1221 \rightarrow 1220$	$36430 \rightarrow 36400$

Round to the nearest 10, 100 or 1,000

- 1 Draw an arrow to show 628 on each number line.

Complete the sentences.

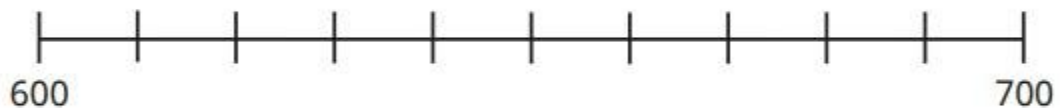
a)



628 is closer to than

628 rounded to the nearest 10 is

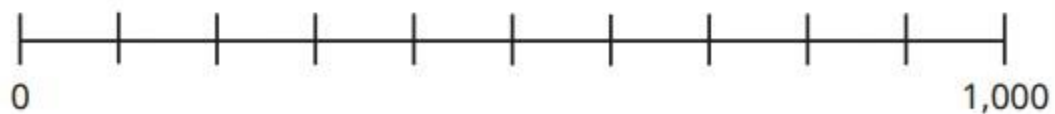
b)



628 is closer to than

628 rounded to the nearest 100 is

c)



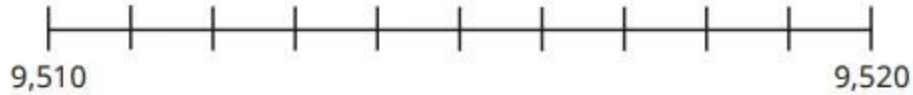
628 is closer to than

628 rounded to the nearest 1,000 is

- 2 Draw an arrow to show 9,515 on each number line.

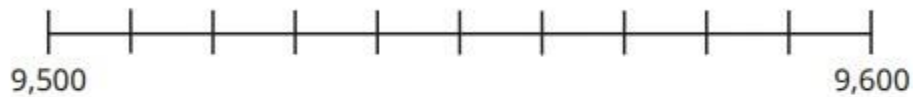
Complete the sentences.

a)



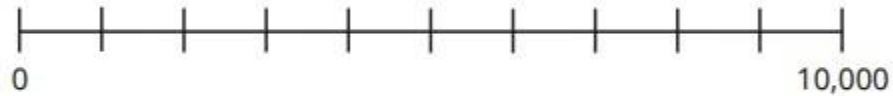
9,515 rounded to the nearest 10 is

b)



9,515 rounded to the nearest 100 is

c)



9,515 rounded to the nearest 1,000 is

- 3 Complete the sentences.

a) 452 rounded to the nearest 100 is

b) 2,452 rounded to the nearest 100 is

c) 4,609 rounded to the nearest 10 is

d) 6,058 rounded to the nearest 1,000 is

e) 9,918 rounded to the nearest 10 is

f) 7,511 rounded to the nearest 1,000 is

4

- a)** Circle the numbers that round to 8,000 when rounded to the nearest 100

8,120**8,500****7,550****7,970****7,099****8,950****8,050****8,045**

- b)** Circle the numbers that round to 8,000 when rounded to the nearest 1,000

8,120**8,500****7,550****7,970****7,099****8,950****8,050****8,045**

What do you notice?

5

3,925 fans attend a music concert.

- a)** Round the number of fans to the nearest 10

- b)** Round the number of fans to the nearest 100

- c)** Round the number of fans to the nearest 1,000

- d)** The concert organiser is keeping a record of the approximate number of fans who attend each concert.

Which do you think is the most appropriate degree of accuracy to round to?

6

There are 2,458 children in a school.



- a) Round the number of children to the nearest 10

- b) Round the number of children to the nearest 100

- c) Round the number of children to the nearest 1,000

- d) The school needs to order one book per child.

Which do you think is the most appropriate degree of accuracy to round to?

Talk about your answer with a partner.

7

When rounded to the nearest 1,000, a number is 5,000

- a) When rounded to the nearest 100, the same number is 4,500




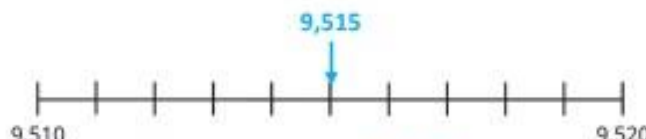

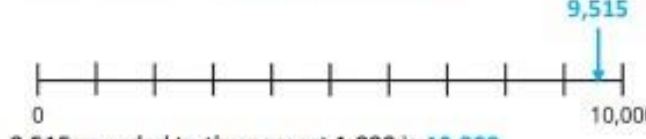
What could the number be?

Is there more than one possible answer?

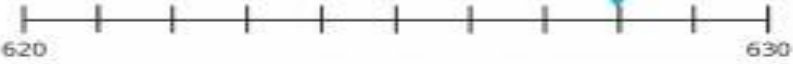
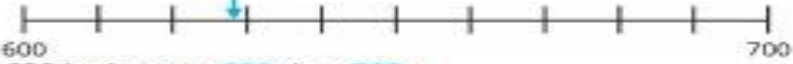


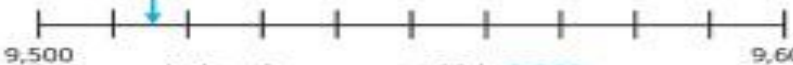

- b) When rounded to the nearest 10, the same number is 4,530

Now what do you think the number could be?

Is there more than one possible answer?

Question	Answer
1	<p>a)</p>  <p>628 is closer to 630 than 620 628 rounded to the nearest 10 is 630</p> <p>b)</p>  <p>628 is closer to 600 than 700 628 rounded to the nearest 100 is 600</p> <p>c)</p>  <p>628 is closer to 1,000 than 0 628 rounded to the nearest 1,000 is 1,000</p>
2	<p>a)</p>  <p>9,515 rounded to the nearest 10 is 9,520</p> <p>b)</p>  <p>9,515 rounded to the nearest 100 is 9,500</p> <p>c)</p>  <p>9,515 rounded to the nearest 1,000 is 10,000</p>
3	<p>a) 452 rounded to the nearest 100 is 500</p> <p>b) 2,452 rounded to the nearest 100 is 2,500</p> <p>c) 4,609 rounded to the nearest 10 is 4,610</p> <p>d) 6,058 rounded to the nearest 1,000 is 6,000</p> <p>e) 9,918 rounded to the nearest 10 is 9,920</p> <p>f) 7,511 rounded to the nearest 1,000 is 8,000</p>

Lets check Answers

Question	Answer
1	<p>a)</p>  <p>628 is closer to 630 than 620 628 rounded to the nearest 10 is 630</p> <p>b)</p>  <p>628 is closer to 600 than 700 628 rounded to the nearest 100 is 600</p> <p>c)</p>  <p>628 is closer to 1,000 than 0 628 rounded to the nearest 1,000 is 1,000</p>
2	<p>a)</p>  <p>9,515 rounded to the nearest 10 is 9,520</p> <p>b)</p>  <p>9,515 rounded to the nearest 100 is 9,500</p> <p>c)</p>  <p>9,515 rounded to the nearest 1,000 is 10,000</p>
3	<p>a) 452 rounded to the nearest 100 is 500</p> <p>b) 2,452 rounded to the nearest 100 is 2,500</p> <p>c) 4,609 rounded to the nearest 10 is 4,610</p> <p>d) 6,058 rounded to the nearest 1,000 is 6,000</p> <p>e) 9,918 rounded to the nearest 10 is 9,920</p> <p>f) 7,511 rounded to the nearest 1,000 is 8,000</p>

Question	Answer
4	<p>a) 8,120 8,500 7,550 7,970</p> <p>7,099 8,950 8,050 8,045</p> <p>b) 8,120 8,500 7,550 7,970</p> <p>7,099 8,950 8,050 8,045</p> <p>All the numbers that round to 8,000 when rounded to the nearest 100 also round to 8,000 when rounded to the nearest 1,000</p>
5	<p>a) 3,930</p> <p>b) 3,900</p> <p>c) 4,000</p> <p>Either the nearest 100 or nearest 1,000</p>
6	<p>a) 2,460</p> <p>b) 2,500</p> <p>c) 3,000</p> <p>d) To the nearest 10, as this will be closest to the number of books they need. However, if the number of children in the school rounds down to the closest 10, then they will not have enough books. In this case, the number of children rounds up to the next 10, so there will be enough books.</p>
7	<p>a) any number from 4,500 to 4,549</p> <p>b) any number from 4,525 to 4,534</p>

ROUNDING TO THE NEAREST 10, 100 & 1000

Round these numbers to the nearest 10

- 1) 47 → _____ 2) 64 → _____ 3) 128 → _____
4) 93 → _____ 5) 315 → _____ 6) 173 → _____
7) 908 → _____ 8) 209 → _____ 9) 167 → _____
10) 245 → _____ 11) 373 → _____ 12) 196 → _____

Round these numbers to the nearest 100

- 1) 732 → _____ 2) 569 → _____ 3) 306 → _____
4) 817 → _____ 5) 763 → _____ 6) 284 → _____
7) 455 → _____ 8) 1372 → _____ 9) 2408 → _____
10) 1375 → _____ 11) 956 → _____ 12) 4347 → _____

Round these numbers to the nearest 1000

- 1) 1348 → _____ 2) 5027 → _____ 3) 1608 → _____
4) 827 → _____ 5) 5981 → _____ 6) 4389 → _____
7) 2715 → _____ 8) 1595 → _____ 9) 6375 → _____
10) 3811 → _____ 11) 375 → _____ 12) 7287 → _____

Lets Check Answers

Round these numbers to the nearest 10

- | | | | | | | | | |
|---------|---|------------|---------|---|------------|---------|---|------------|
| 1) 47 | → | <u>50</u> | 2) 64 | → | <u>60</u> | 3) 128 | → | <u>130</u> |
| 4) 93 | → | <u>90</u> | 5) 315 | → | <u>320</u> | 6) 173 | → | <u>170</u> |
| 7) 908 | → | <u>910</u> | 8) 209 | → | <u>210</u> | 9) 167 | → | <u>170</u> |
| 10) 245 | → | <u>250</u> | 11) 373 | → | <u>370</u> | 12) 196 | → | <u>200</u> |

Round these numbers to the nearest 100

- | | | | | | | | | |
|----------|---|-------------|---------|---|-------------|----------|---|-------------|
| 1) 732 | → | <u>700</u> | 2) 569 | → | <u>600</u> | 3) 306 | → | <u>300</u> |
| 4) 817 | → | <u>800</u> | 5) 763 | → | <u>800</u> | 6) 284 | → | <u>300</u> |
| 7) 455 | → | <u>500</u> | 8) 1372 | → | <u>1400</u> | 9) 2408 | → | <u>2400</u> |
| 10) 1375 | → | <u>1400</u> | 11) 956 | → | <u>1000</u> | 12) 4347 | → | <u>4300</u> |

Round these numbers to the nearest 1000

- | | | | | | | | | |
|----------|---|-------------|---------|---|-------------|----------|---|-------------|
| 1) 1348 | → | <u>1000</u> | 2) 5027 | → | <u>5000</u> | 3) 1608 | → | <u>2000</u> |
| 4) 827 | → | <u>1000</u> | 5) 5981 | → | <u>6000</u> | 6) 4389 | → | <u>4000</u> |
| 7) 2715 | → | <u>3000</u> | 8) 1595 | → | <u>2000</u> | 9) 6375 | → | <u>6000</u> |
| 10) 3811 | → | <u>4000</u> | 11) 375 | → | <u>0</u> | 12) 7287 | → | <u>7000</u> |