

AIM: 1-5 I will be able to round decimal numbers using what I know about place value!

Name _____
Mrs. Ashley

Date _____
Math 6 - Period _____

Warm-up: Find the product using zero patterns.

1) $8 \times 600 = \underline{4,800}$

4) $50 \times 300 = \underline{15,000}$

2) $9 \times 800 = \underline{7,200}$

5) $600 \times 400 = \underline{240,000}$

3) $20 \times 700 = \underline{14,000}$

6) $40 \times 210 = \underline{8,400}$

① Multiply counting numbers (1, 2, 3, 4...) ② Count number of zeros and add to the product



Let's Investigate: STEPS FOR ROUNDING

1. Underline the 'target' number (the place you want to round).
2. Circle the digit to the right.
3. If the digit is less than five, KEEP the target number the same.
4. If the digit is greater than or equal to five, ADD one to the 'target' number.
5. For **whole numbers**: replace all digits to the right with zeros.
For **decimal numbers**: drop the zeros after the 'target' number.



"5 or more raise the score, 4 or less let it rest!"
"5 and above give it a shove, 4 or below let it go!"



Example: Round to the nearest tenths. $240.\underline{85}$ 240.9

Now You Try! Complete the chart. Round each number to the given place value.

Round to the nearest...	Tens	^{ones} Whole Number	Tenths	Hundredths	Thousandths
145.0736	150	145	145.1	145.07	145.074

145.0736 145.0736 145.0736 145.0736 145.0736

EXIT - TICKET

(Finish for HW)

1) Round to the tens. 574,645 _____

2) Round to the thousands. 75,437,231 _____

3) Round to the millions. 69,683,383 _____

4) Round to the tenths. 75.561 _____

5) Round to the hundredths. 192.024 _____

6) Round to the thousandths. 29.1508 _____

7) Craig scored between 14 and 24 points per game playing basketball. Which point totals for all 6 games is most reasonable?



- a) 20 points b) 80 points c) 120 points d) 150 points

How did you decide? Explain in complete sentences.

Pairs Check: Rounding

Name _____

Date _____

Instructions: Mathlete A will do the problem in the **LEFT** column while Mathlete B coaches. Then, Mathlete B will do the problem in the **RIGHT** column while Mathlete A coaches. When you reach a **STOP** point, raise your hand to get a teacher's signature!

Mathlete A: <u>Mrs. Ashley</u>	Mathlete B: <u>Dalila</u>
1) Round to the nearest thousands. <div style="text-align: center; font-weight: bold; font-size: 1.2em;">1,598</div> <div style="text-align: right; border: 1px solid black; padding: 2px; width: fit-content; margin-left: auto;">B initials:</div>	1) Round to the nearest thousands. <div style="text-align: center; font-weight: bold; font-size: 1.2em;">4,490</div> <div style="text-align: right; border: 1px solid black; padding: 2px; width: fit-content; margin-left: auto;">A initials:</div>
2) Round to the nearest tens. <div style="text-align: center; font-weight: bold; font-size: 1.2em;">731.09</div> <div style="text-align: right; border: 1px solid black; padding: 2px; width: fit-content; margin-left: auto;">B initials:</div>	2) Round to the nearest tens. <div style="text-align: center; font-weight: bold; font-size: 1.2em;">237.02</div> <div style="text-align: right; border: 1px solid black; padding: 2px; width: fit-content; margin-left: auto;">A initials:</div>
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3) Round to the nearest whole number. <div style="text-align: center; font-weight: bold; font-size: 1.2em;">3,560.85</div> <div style="text-align: right; border: 1px solid black; padding: 2px; width: fit-content; margin-left: auto;">B initials:</div>	3) Round to the nearest whole number. <div style="text-align: center; font-weight: bold; font-size: 1.2em;">1,260.25</div> <div style="text-align: right; border: 1px solid black; padding: 2px; width: fit-content; margin-left: auto;">A initials:</div>
4) Round to the nearest tenths. <div style="text-align: center; font-weight: bold; font-size: 1.2em;">65.17823</div> <div style="text-align: right; border: 1px solid black; padding: 2px; width: fit-content; margin-left: auto;">B initials:</div>	4) Round to the nearest tenths. <div style="text-align: center; font-weight: bold; font-size: 1.2em;">44.128</div> <div style="text-align: right; border: 1px solid black; padding: 2px; width: fit-content; margin-left: auto;">A initials:</div>

Mathlete A: _____	Mathlete B: _____
5) Round to the nearest hundredths. <p style="text-align: center;">8.053</p> <div style="text-align: right; border: 1px solid black; padding: 2px; width: fit-content; margin-left: auto;">B initials:</div>	5) Round to the nearest hundredths. <p style="text-align: center;">0.999</p> <div style="text-align: right; border: 1px solid black; padding: 2px; width: fit-content; margin-left: auto;">A initials:</div>
6) Round to the nearest hundred thousand. <p style="text-align: center;">185,870</p> <div style="text-align: right; border: 1px solid black; padding: 2px; width: fit-content; margin-left: auto;">B initials:</div>	6) Round to the nearest hundred thousand. <p style="text-align: center;">234,709</p> <div style="text-align: right; border: 1px solid black; padding: 2px; width: fit-content; margin-left: auto;">A initials:</div>
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7) Round to the nearest hundreds. <p style="text-align: center;">48,222</p> <div style="text-align: right; border: 1px solid black; padding: 2px; width: fit-content; margin-left: auto;">B initials:</div>	7) Round to the nearest hundreds. <p style="text-align: center;">65,767</p> <div style="text-align: right; border: 1px solid black; padding: 2px; width: fit-content; margin-left: auto;">A initials:</div>
8) Round to the nearest tenths. <p style="text-align: center;">9.99</p> <div style="text-align: right; border: 1px solid black; padding: 2px; width: fit-content; margin-left: auto;">B initials:</div>	8) Round to the nearest tenths. <p style="text-align: center;">0.844</p> <div style="text-align: right; border: 1px solid black; padding: 2px; width: fit-content; margin-left: auto;">A initials:</div>