



3.NS.6 Use place value understanding to round two- and three-digit whole numbers to the nearest 10 or 100.	
Reporting Category: Number Sense	Subdomain: Place Value
3.NS.6 Instructional Framework	
Assessed On:	
<input checked="" type="checkbox"/> Checkpoint 1 <input type="checkbox"/> Checkpoint 2 <input type="checkbox"/> Checkpoint 3 <input checked="" type="checkbox"/> Summative	
Content Limits: <ul style="list-style-type: none">• Number limited to whole number up to 1000• Limit the use of ambiguous numbers, such as 697, that would result in the same number regardless of if the student were rounding to the nearest 10 or 100	
Clarifications: <ul style="list-style-type: none">• N/A	
Calculator Availability: Not Allowed	
Expected Academic Vocabulary: round, place value, ten, hundred	
Examples of Context and Varying Difficulty Levels	
Context: Easy	Limit to two-digit numbers, omit the use numbers that result in rounding to 100 (95-99).
Context: Medium	Numbers are two- or three-digit numbers, round to the nearest 10 or 100.
Context: Difficult	Round one number to the nearest 10 and the nearest 100.
Proficiency Level Descriptors and Example Items	
Looking Back: <p>This concept is not specifically addressed in the Indiana Academic standards prior to this grade level.</p>	Looking Ahead: 4.NS.7 ILEARN Item Specification
Below Proficiency: Identify two possible solutions when given a number to round to the nearest ten or hundred.	
Alvin counted 134 people seated at the play at his school. His teacher asked him to round that number to the nearest ten. Which two numbers should Alvin think about? a. 100 and 200 b. 100 and 150	This is a DOK 2 item because students must identify two possible solutions based on place value.



<p>c. 130 and 140 d. 120 and 130</p>	<p>This item is medium difficulty because it includes rounding a three-digit number to the nearest 10.</p>
Approaching Proficiency: Round a two-digit number to the nearest ten or a three-digit number to the nearest hundred.	
<p>Round 846 to the nearest hundred.* Answer: 800</p>	<p>This is a DOK 1 item because students must round a given number to the nearest 10 or 100.</p> <p>This item is medium difficulty because it requires rounding a three-digit number to the nearest 100.</p>
At Proficiency: Round two- and three-digit numbers to the nearest ten and hundred; or identify multiple numbers that round to a specific multiple of ten or hundred.	
<p>Part A: Round 842 to the nearest hundred.* Answer: 800</p> <p>Part B: Round 842 to the nearest ten. Answer: 840</p>	<p>This is a DOK 1 item because students must round given numbers to the nearest 10 or 100.</p> <p>This item is difficult because the number must be rounded to both the tens and hundreds place.</p>
<p>Which three numbers round to 700 when rounded to the nearest hundred?</p> <p>a. 650 b. 751 c. 745 d. 649 e. 673</p>	<p>This is a DOK 2 item because students must identify numbers that round to a given value</p> <p>This item is medium difficulty because it requires rounding three-digit numbers to the nearest 100.</p>
<p>Complete the table by filling in the missing original numbers with possible</p>	<p>This is a DOK 2 item</p>



values.*

Original Number	Rounded to the Nearest Ten
	100
	150
	190

Answer:

First line: any number between 95-104

Second line: any number between 145-154

Third line: any number between 185-194

because students must identify numbers that round to a given value.

This item is medium difficulty because it includes rounding three-digit numbers to the nearest 10.

Above Proficiency: Identify the greatest and least whole numbers that round to a specific multiple of 10 or 100. Justify the rounding of a number using place value concepts or number lines.

What is the greatest whole number that rounds to 650 when rounding to the nearest ten?

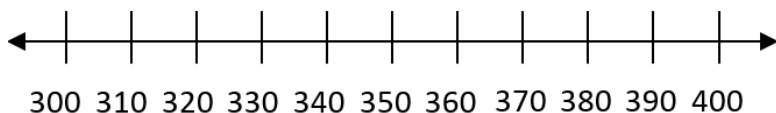
Answer: 654

This is a DOK 2 item because students must identify numbers that round to a given value.

This item is medium difficulty because it includes rounding a three-digit number to the nearest 10.

Max wants to round the number 345 to the nearest ten.

On the number line below, plot 345.



Which statement is true about how Max should round 345 to the nearest ten?

- a. Max should round 345 to 340 because there is a 4 in the tens place.
- b. Max should round 345 to 350 because 345 is halfway between 340 and 350.**
- c. Max should keep the number the same because it is halfway

This is a DOK 3 item because students must justify the rounding of a number using place value concepts or number lines.

This is a medium difficulty item because it includes rounding a three-digit number to the nearest 10.



- between 340 and 350.
- d. Max should round 345 to 350 because it is closer to 300 than 400.