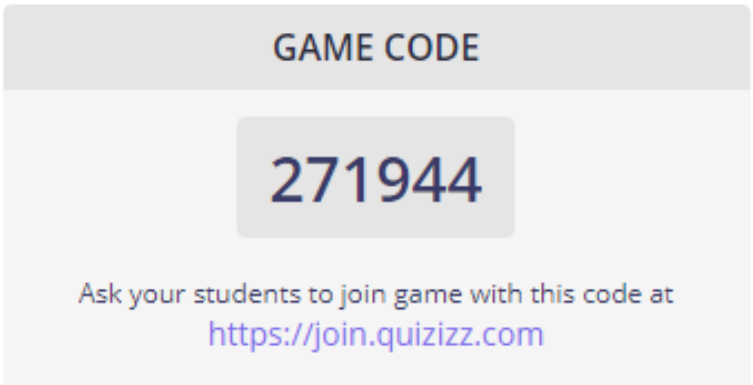
Warm-Up



Be sure to use your real name, or a zero will be given :(

4.2 Rounding Decimals

Recall rounding whole numbers:

89 to the nearest ten

90

Step 1 Locate your place value, put a cut-off line after it

Step 2 Look @ the one digit to the right of it

Step 3 If # 5 or more round up
4 or less stay the same

Step 4 Use ≈, drop all digits after cut off

Ex 1 Rounding a Decimal Number

Round 14.39652 to the nearest thousandth

Which digit is in the thousandths place? 6
Which digit decides? 5
Decision? round 6 → 7

192
200 ≈ 14.397

How is this different than rounding whole numbers??

Ex 2 Rounding a Decimal to Different Places

a) 5.3496 to the nearest tenth

≈ 5.3

b) 0.69738 to the nearest hundredth

~~0.7~~ ≈ 0.70

Ex 3 Rounding to the Nearest Cent (hundredths)

a) $2.4238

≈ $2.42

b) $0.695

≈ $0.70

Ex 4 Rounding the to Nearest Dollar (ones)

??

a) $48.68

≈ $49

b) $2690.50

≈ $2691

c) $349.88

≈ $350

Check-In

#1 Round to the nearest thousandths

a) 0.33492 b) 265.42038 c) 10.70180

0.335 265.420 10.702

#2 Round to place indicated

a) 0.8988 (hundredth) b) 0.545 (tenth)

0.90 0.5

#3 Round to nearest cent

a) $14.595 b) $0.849

≈$14.60 $0.85

#4 Round to nearest dollar

a) $5949.88 b) $136.49

$5950 $136