

# Estimating Decimals Using Rounding

NCTM Standards 1, 2, 6, 7, 8, 9

Round each number to the nearest whole number.

Example

$3.3 \rightarrow 3$	1 $9.66 \rightarrow$ _____	2 $16.91 \rightarrow$ _____
3 $69.29 \rightarrow$ _____	4 $102.5 \rightarrow$ _____	5 $3,080.4 \rightarrow$ _____

Round each number to the nearest tenth.

Example

$20.82 \rightarrow 20.8$	6 $16.46 \rightarrow$ _____	7 $38.191 \rightarrow$ _____
8 $42.069 \rightarrow$ _____	9 $71.96 \rightarrow$ _____	10 $95.04 \rightarrow$ _____

Round each number to the nearest hundredth.

Example

$2.456 \rightarrow 2.46$	11 $1.90222 \rightarrow$ _____	12 $6.4781 \rightarrow$ _____
13 $80.045 \rightarrow$ _____	14 $9.001 \rightarrow$ _____	15 $3.496 \rightarrow$ _____

**Write reasonable estimates.**

16 Nick wanted to add the following prices in his head, so he rounded them to the nearest dollar: \$19.99, \$4.69, and \$3.29.

He added \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ to get an estimate of \_\_\_\_\_.

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17 Mr. Brown saw 199.7 when he stepped on the scale.

He weighed close to \_\_\_\_\_ pounds.

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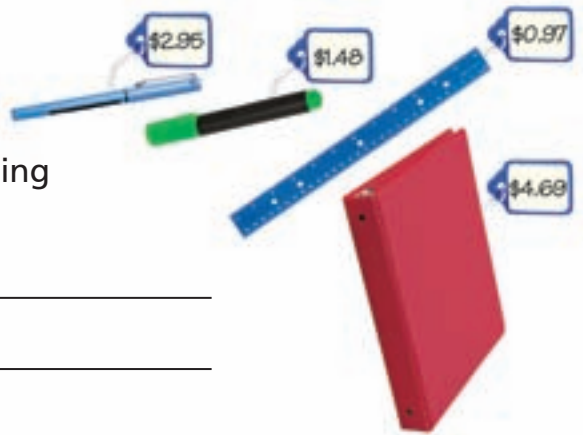
18 Ralph's mother took his temperature and it was 101.6°.

It was close to \_\_\_\_\_ degrees.

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**For 19 and 20, use these items and prices.**

19 Ross has \$8.00. He wants to buy all four items. Does he have enough money? Explain how you can use rounding to find out if he has enough money.



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20 Rebecca has \$5.00. She wants to buy the pen and one other item. Which other item can she buy? Explain how you can use rounding to find another item.

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21 **Challenge** Round 402.955 to the nearest whole number \_\_\_\_\_ tenth \_\_\_\_\_ hundredth \_\_\_\_\_

Explain how you rounded 402.955 to the nearest hundredth.

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