

# REVIEW: Comparing and Ordering Decimals

Name \_\_\_\_\_

## Key Concept and Vocabulary

is less than

$$1.23 < 1.24$$

is greater than

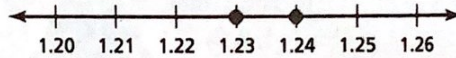
$$1.24 > 1.23$$

Order decimals.



## Visual Model

Number Line



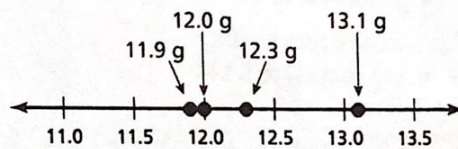
$1.23 < 1.24$  because 1.23 is to the left of 1.24 on the number line.

## Skill Examples

- $34.07 > 30.47$  4 is bigger than 0
- $12.35 < 12.38$  5 is smaller than 8
- $17,056.4 > 17,055.9$  6 is bigger than 5
- $0.4 = 0.40$   $0.40 = 0.40$
- $0.103 > 0.099$  you can put a 0 after 1 is bigger than 0

## Application Example

6. Order the weights from least to greatest:  
12.3 g, 11.9 g, 12.0 g, 13.1 g.



••• 11.9 g, 12.0 g, 12.3 g, 13.1 g

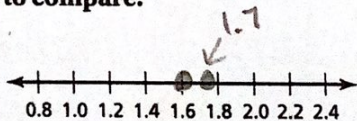
## PRACTICE MAKES PURR-FECT®



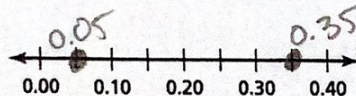
Check your answers at [BigIdeasMath.com](http://BigIdeasMath.com).

Use a number line to compare.

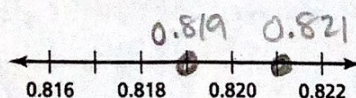
7.  $1.6 < 1.7$



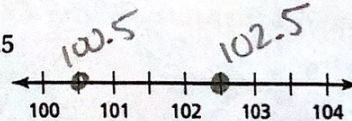
9.  $0.35 > 0.05$



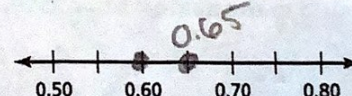
11.  $0.821 > 0.819$



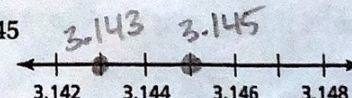
8.  $102.5 > 100.5$



10.  $0.60 < 0.65$



12.  $3.143 < 3.145$



Order the lengths from least to greatest.

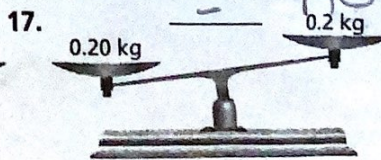
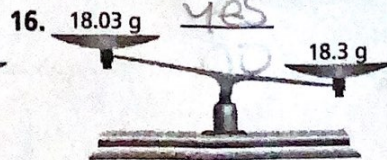
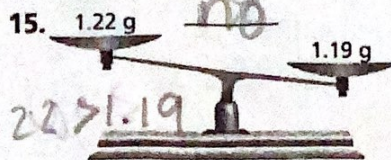
13. 29.9 ft, 32.3 ft, 31.7 ft, 31.75 ft

29.9, 31.7, 31.75, 32.3

14. 0.5 m, 0.05 m, 1.02 m, 0.08 m

0.05, 0.08, 0.5, 1.02

Is the scale reading correctly?



18. **OPEN-ENDED** Newton is thinking of a number that is greater than 0.4 and less than 0.5. The greatest digit in the number is in the hundredths place. What might Newton's number be? 0.49

0.49

0.46 0.48



# REVIEW: Rounding Decimals

Name \_\_\_\_\_

## Key Concept and Vocabulary

round up

Decision digit is 5, 6, 7, 8, or 9.

round down

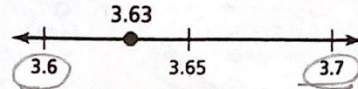
Decision digit is 0, 1, 2, 3, or 4.

Rounding



## Visual Model

Round 3.63 to the nearest tenth.



3.63 is closer to 3.6 than to 3.7. So, 3.63 rounds to 3.6.

## Skill Examples

- To the nearest whole number:  
3.129 rounds to 3.
- To the nearest tenth:  
4.78 rounds to 4.8.
- To the nearest hundredth:  
0.143 rounds to 0.14.

## Application Example

- The price of 1 gallon of gasoline is \$2.899. Round this price to the nearest cent.  
To the nearest cent: 2.899 rounds to 2.90.
- The price of 1 gallon of gasoline is about \$2.90.

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Check your answers at [BigIdeasMath.com](http://BigIdeasMath.com).

Round to the nearest whole number. *answer should not have a decimal*

5. 5.74 6      6. 1.004 1      7. 26.237 26      8. 4.506 5

Round to the nearest tenth. *answer should have 1 decimal place*

9. 0.16 0.2      10. 0.738 0.7      11. 1.05 1.1      12. 10.049 10.0

Round to the nearest hundredth. *answer should have 2 decimal places*

13. 0.012 0.01      14. 2.406 2.41      15. 0.463 0.46      16. 12.006 12.01

Round the butterfly's weight to the nearest hundredth of a gram. *answer should be 2 decimal places*

17.  0.034 g

0.03 g

18.  0.107 g

0.11 g

19.  0.008 g

0.01 g

20. **PRICE OF GAS** The price of 1 gallon of gasoline is \$2.479. Round this price to the nearest cent. 2.48

21. **BUTTERFLY WEIGHTS** All species of butterflies weigh between 0.003 gram and 3 grams. Explain why it would *not* make sense to round some butterfly weights to the nearest hundredth of a gram.  
It would be too small. It would have no mass.