



4th
Basic

5th
Advanced

Helping With Math

USA
GRADES

Comparing Decimals

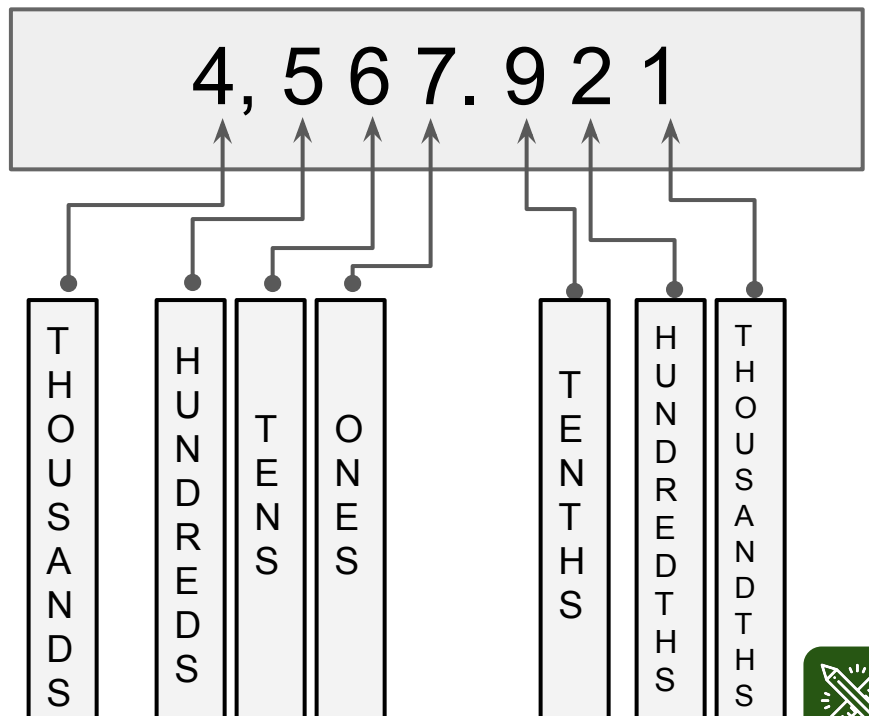
*Suitable for students
aged 8-10*



This pack is suitable for learners aged 8-10 years old or 4th to 5th graders (USA). The content covers fact files and relevant basic and advanced activities involving comparing decimals.

Key Concepts:

- **Comparing numbers** in mathematics is a way of determining if one **number** is equal, smaller or bigger than the other **number**.
- Understanding which is smaller, larger, or just the same plays an important role in real-life.



COMPARING NUMBERS

SYMBOLS USED IN COMPARING NUMBERS

SYMBOL	MEANING	EXAMPLE
=	Equal sign is used to show that the two numbers are equal in value.	$2.35 = 2.35$
<	Less than sign is used to show that one number has smaller value than the other number.	$1.72 < 3.5$
>	Greater than sign is used to show that one number has larger value than the other number.	$25.67 > 19.28$

Study again the symbols we are using to compare numbers. Are they already familiar to you? Do you have any question so far? Share your thoughts below.



ILLUSTRATIVE EXAMPLES



A PLACE VALUE CHART IS VERY USEFUL TO COMPARE DECIMALS. LOOK AT THE EXAMPLE BELOW:

Which is greater 5.370 or 5.349?

O N E S	A N D	T E N T H S	H U N D R E D T H S	T H O U S A N D T H S
5	.	3	7	0
5	.	3	4	9

Explanation:

The ones and tenths digit are the same but the hundredths digit of 5.370 is greater than the same place value of 5.349. Therefore, $5.370 > 5.349$.



ILLUSTRATIVE EXAMPLES

Which one is smaller 0.195 or 0.591?

O N E S	A N D	T E N T H S	H U N D R E D T H S	T H O U S A N D T H S
0	.	1	9	5
0	.	5	9	1

Explanation:

The tenths digit of 0.195 is smaller than the same place value of 0.591. Therefore, $0.195 < 0.591$.

**TAKE
NOTE!**

Equivalent Decimals - these are decimals having the same value. When you add zero the right of the last digit of the decimal, its value will stay the same.

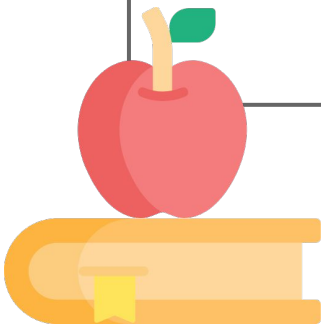


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EDUCATION FOR ALL

G4
Basic

International Day of Education is celebrated to promote the Education For All (EFA) policy. Make sure that everyone gets the education that they deserved by encircling the decimal number with the lowest value.

1.

A) 3. 04

B) 2. 40

C) 3. 40

D) 2. 04

2.

A) 0. 10

B) 0. 05

C) 0. 01

D) 0. 50

3.

A) 5. 19

B) 5. 91

C) 6. 19

D) 6. 91

4.

A) 9. 51

B) 8. 53

C) 8. 55

D) 9. 05

5.

A) 11. 11

B) 11. 12

C) 12. 11

D) 11. 21

6.

A) 6. 23

B) 6. 32

C) 2. 36

D) 3. 26

7.

A) 3. 2

B) 3. 20

C) 3. 02

D) 2. 30

8.

A) 7. 04

B) 2. 40

C) 3. 40

D) 2. 04



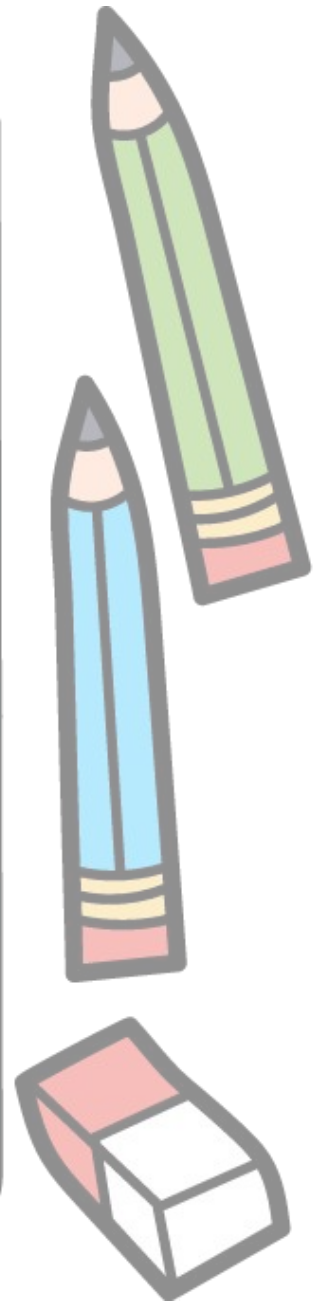
LET'S EDUCATE OTHERS

G4
Basic

Let's educate others about decimals by crossing out the decimal number with the largest value.

Which has the largest value?

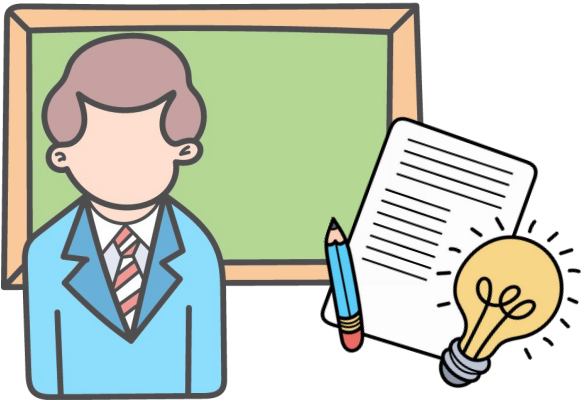
1.	25.8	24.8	26.8
2.	21.1	11.2	12.1
3.	0.67	0.76	0.75
4.	1.23	2.21	1.32
5.	5.9	5.09	5.02



THE GREATEST EDUCATOR

G4
Basic

A great person once said that the greatest weapon to fight poverty is education. Let's do that by learning decimals. Use $<$ or $>$ to complete the mathematical sentences.



$$5) 11.2 \quad \underline{\hspace{2cm}} \quad 12.1$$

$$6) 3.27 \quad \underline{\hspace{2cm}} \quad 3.17$$

$$1) 4.2 \quad \underline{\hspace{2cm}} \quad 4.02$$

$$7) 8.03 \quad \underline{\hspace{2cm}} \quad 8.30$$

$$2) 1.9 \quad \underline{\hspace{2cm}} \quad 9.1$$

$$8) 5.6 \quad \underline{\hspace{2cm}} \quad 6.5$$

$$3) 0.23 \quad \underline{\hspace{2cm}} \quad 0.32$$

$$9) 0.2 \quad \underline{\hspace{2cm}} \quad 1.02$$

$$4) 0.18 \quad \underline{\hspace{2cm}} \quad 0.8$$

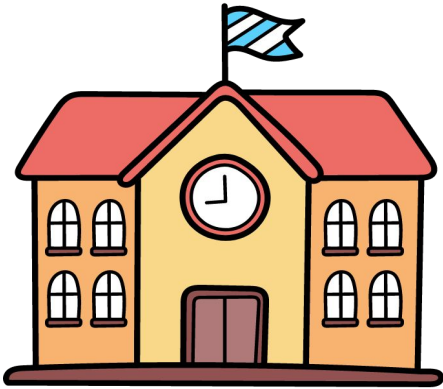
$$10) 3.3 \quad \underline{\hspace{2cm}} \quad 4.4$$



THE SMALLEST SCHOOL IN TOWN

G4
Basic

Look for the smallest school in town by selecting the decimal with a smaller value. Encircle the number to identify your answer.



9) 1.12 vs 1.21

8) 24.03 vs 24.30

7) 21.6 vs 21.9

6) .08 vs .80

5) 23.04 vs 23.40



4) 23.14 vs 32.40

3) 28.12 vs 28.02

2) 19.13 vs 19.31

1) 23.04 vs 23.40



THE DECIMAL PORTFOLIO

G4
Basic

Complete your decimal portfolio by answering the questions below. Write the letter of your choice on the space before each number.

____ 1. Which of the following decimal numbers is greater than 5.03?

- A) 5.01 B) 5.02 C) 5.00 D) 5.04

____ 2. Which of the following decimal numbers is less than 10.6?

- A) 11.01 B) 10.7 C) 10.5 D) 10.8

____ 3. Which of the following decimal numbers is equal to 2.2?

- A) 2.22 B) 2.02 C) 2.00 D) 2.20

____ 4. The following numbers are greater than 3.5 except one.

- A) 5.3 B) 6.3 C) 3.05 D) 3.51

____ 5. The following numbers are less than 3.5 except one.

- A) 2.5 B) 3.6 C) 3.05 D) 2.05

TRIVIA: Who was considered as the "Father of Decimal"?



Be one of the learning kids! Supply the box with desired answers per question.

1. List down four decimal numbers that are greater than 8. 04 but less than 8. 40.
2. Give five decimal numbers that are greater than 0.5 but less than 0.7.
3. Enumerate eight decimal numbers that are less than or equal to 0.1.



SCIENCE EXPERIMENT

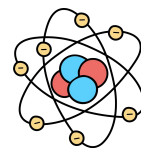
G5
Advanced

Make this Science Experiment of lovely kids a success by identifying if the following statements are TRUE or FALSE.

- _____ 1. Between 45.098 and 45.089, the second decimal is closer to 0 in the number line.
- _____ 2. 14.679 is closer to 15.18 compared to 14.05.
- _____ 3. Between 11.354 and 11.453, the second decimal is closer to 0 in the number line.
- _____ 4. 4.132 is closer to 8.18 compared to 4.05.
- _____ 5. Among 6.156, 6.516, and 6.615, the first decimal has the least value.

5th Grade

Explanation of your answer.



- 1.
- 2.
- 3.
- 4.
- 5.



MY MATH HOMEWORK

G5
Advanced

Help Ali answer his homework. He was asked by his teacher to identify the error on the given below. Write your answer on the space provided.

Which is greater 9.728 or 9.782?				
O N E S	A N D	T E N T H S	H U N D R E D T H S	T H O U S A N D T H S
9	.	7	2	8
9	.	7	8	2

Explanation:

The ones and tenths digit are the same but the hundredths digit of 9.728 is greater than the same place value of 9.782. Therefore, $9.728 > 9.782$.

Your answer:



BOOK WORMS

G5
Advanced

Ana and Emily are school best friends. One thing they love in common is reading books. Answer the following situations below using your understanding of decimal numbers.

1. According to Ana, she can read one whole fiction-themed novel in 4.185 hours. She is claiming that she is a faster reader than her older brother who can finish the same book in 4.5 hours. Is her claim valid? Explain your answer.

2. Ana and Emily had challenged themselves. They need to finish reading three books and they have to record the time they spent to finish them. The data are given below:

	Book 1	Book 2	Book 3
Ana	0.583 hrs	1.937 hrs	2.822 hrs
Emily	0.499 hrs	1.935 hrs	2.288 hrs

Who spent longer time to finish the three books? Explain your answer.



JUNIOR MATHEMATICIAN

G5
Advanced

Be the Junior Mathematician of the Week by comparing the following decimals using $<$, $>$, or $=$.

1.

65.13



2.890



2.89

2.

0.597



0.917



0.971

3.

1.38



12.38



38.9

4.

5.489



5.982



5.936

5.

9.12

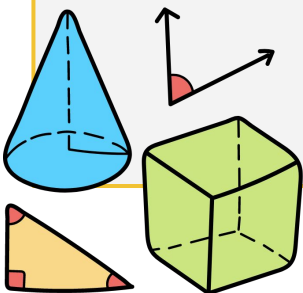


0.980



0.98

Give at least three life scenarios where comparing decimals is important.



ANSWER GUIDE

Activity 1

1. D 2. C 3. A
4. B 5. A 6. C
7. D 8. D

Activity 2

1. 26.8 2. 21.1
3. 0.76 4. 2.21 5. 5.9

Activity 3

1. > 2. < 3. <
4. < 5. < 6. >
7. < 8. < 9. < 10. <

Activity 4

1. 23.04 2. 19.13 3. 28.02
4. 23.14 5. 23.04 6. .08
7. 21.6 8. 24.03 9. 1.12

Activity 5

1. D 2. C 3. D
4. C 5. B The Father of
Decimal is Aryabhata.

Activity 6

Answers may vary per learner.
The possible answers may be:
1. 8.05, 8.06, 8.07, 8.08
2. 0.51, 0.52, 0.53, 0.54, 0.55
3. 0.1, 0.2, 0.3, 0.4, 0.5, 0.6,
0.7, 0.8

Activity 7

1. TRUE because the second decimal is less than the first one.
2. TRUE because 14.679 is greater than 14.05.
3. FALSE because 11.453 is greater than 11.354.
4. TRUE because 4.05 is less than 4.132.
5. TRUE, because the tenths digit of the first decimal is the lowest among the given.



ANSWER GUIDE

Activity 8

1. The explanation is not correct. The conclusion must be $9.728 < 9.782$.

Activity 9

1. Yes, her claim is valid because 4.5 hours is greater than 4.185. Having that, 4.5 is a slower time than 4.185.
2. Ana spent the longer time to read the three books. Her time, which were expressed in decimals, are greater than Emily's.

Activity 10

1. $>, =$ 2. $<, <$ 3. $<, <$ 4. $<, >$ 5. $>, =$

Answers may vary per learner.



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