



Year 4 Mathematics

Decimals Workshop

Worksheet 21: Tenths and Notation

Name: _____ Date: _____

Section 1: Fluency - Shading Tenths

Use tenths bars to understand decimal notation.

Remember: Each bar is divided into 10 equal parts. Each part is one-tenth (0.1) of the whole.

1. Look at this tenths bar. What decimal is shaded?



Answer: _____

2. Shade 0.4 of this tenths bar:



3. Look at this tenths bar. Write the shaded part as a decimal:



Answer: _____

4. Shade 0.9 of this tenths bar:





5. How many tenths are shaded?



Answer: _____ tenths or _____ (as a decimal)

6. Shade 0.1 of this bar:



7. What decimal is shown?



Answer: _____

8. If a whole bar represents 1, what part is NOT shaded in this diagram?
(Write as a decimal)



Answer: _____



Tenths Trendsetter!

*Why did the decimal point wear sunglasses?
Because it was so cool being in the middle!*



Section 2: Reasoning - Place Value Chart

Understand the position and value of digits in decimal numbers.

9. Put the number 3.6 into this place value chart:

Ones	.	Tenths

What is the value of the 6?

Answer: _____

10. Complete this place value chart for the number 5.2:

Ones	.	Tenths
?		?

11. In the number 7.8, which digit is in the tenths column?

Answer: _____

12. What number is represented in this place value chart?

Ones	.	Tenths
9		4

Answer: _____

13. In the number 2.7, what is the value of the 2?



Answer: _____

14. Complete: In the number 6.3, the 3 is in the _____ column.

15. A number has 4 ones and 5 tenths. Write this number:

Answer: _____



Place Value Pro!

*Why did the decimal love its place value chart?
Because it always knew exactly where it belonged!*



Section 3: Fluency - Writing Decimals

Convert between words and decimal notation.

16. Write 'seven tenths' as a decimal number.

Answer: _____

17. Write 'two tenths' as a decimal number.

Answer: _____

18. Write the decimal 0.6 in words:

Answer: _____

19. Write 'one and three tenths' as a decimal.

Answer: _____

20. Write the decimal 4.9 in words:

Answer: _____

21. Write 'eight tenths' as a decimal:

Answer: _____

22. What is 0.5 in words?



Answer: _____

23. Write 'six and one tenth' as a decimal:

Answer: _____



Decimal Dynamo!

What do you call a cold decimal?

A 'brrr-ecimal'!

Great work! You're a tenths expert!





Answer Key

Worksheet 21: Tenths and Notation

Section 1: Fluency - Shading Tenths

1. Answer: **0.3**
2. **Students should shade 4 out of 10 sections**
3. Answer: **0.7**
4. **Students should shade 9 out of 10 sections**
5. Answer: **5 tenths or 0.5**
6. **Students should shade 1 out of 10 sections**
7. Answer: **0.8**
8. Answer: **0.8**
(2 tenths are shaded, so 8 tenths are NOT shaded)

Section 2: Reasoning - Place Value Chart

9. Chart should show: 3 in Ones column, 6 in Tenths column
Value of 6: **6 tenths or 0.6**
10. **5 in Ones column, 2 in Tenths column**
11. Answer: **8**
12. Answer: **9.4**
13. Answer: **2 ones or 2**
14. Answer: **tenths**
15. Answer: **4.5**

Section 3: Fluency - Writing Decimals

16. Answer: **0.7**
17. Answer: **0.2**



- 18. Answer: **six tenths**
- 19. Answer: **1.3**
- 20. Answer: **four and nine tenths** or **four point nine**
- 21. Answer: **0.8**
- 22. Answer: **five tenths** or **one half**
- 23. Answer: **6.1**





Year 4 Mathematics

Decimals Workshop

Worksheet 22: Hundredths & Fraction Connections

Name: _____

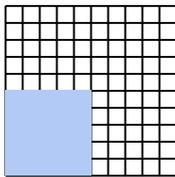
Date: _____

Section 1: Fluency - Hundredths Grids

Understand hundredths using 10×10 grids.

Remember: Each grid has 100 small squares. Each square is one-hundredth (0.01) of the whole.

1. Look at this hundredths grid. How many squares are shaded?



Number of squares: _____

As a fraction: _____

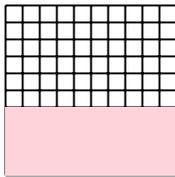
As a decimal: _____

2. If 15 squares are shaded in a hundredths grid, write this as a fraction and a decimal.

Fraction: _____

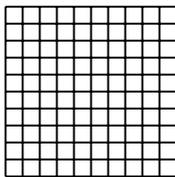
Decimal: _____

3. Look at this grid. Write the shaded part as a decimal:

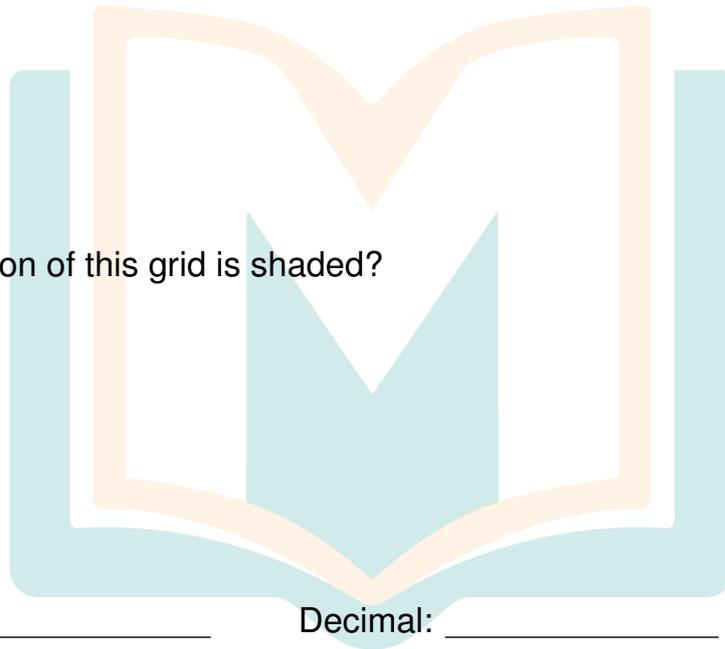
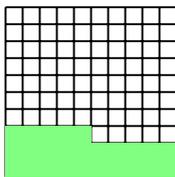


Answer: _____

4. Shade 0.30 (30 hundredths) of this grid:



5. What fraction of this grid is shaded?



Fraction: _____ Decimal: _____

6. Write 0.08 as a fraction:

Answer: _____

7. If 50 squares out of 100 are shaded, what decimal is this?

Answer: _____



8. Write

$$\frac{75}{100}$$

as a decimal:

Answer: _____



Hundredths Hero!

Why did the hundredths grid feel powerful?

Because it had 100 tiny squares to help!

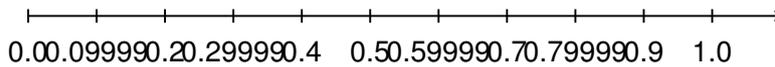




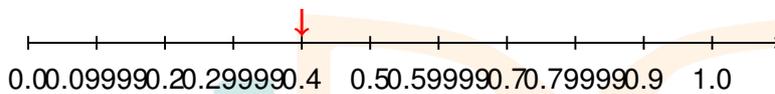
Section 2: Reasoning - Number Line Placement

Place decimals accurately on a number line.

9. Place an 'X' where 0.7 would be on this number line:

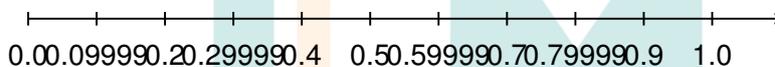


10. What decimal is marked with the arrow on this number line?



Answer: _____

11. Place an 'X' where 0.3 would be:



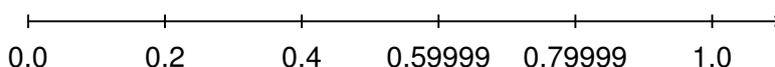
12. Which is larger: 0.6 or 0.9?

Answer: _____

13. Put these decimals in order from smallest to largest: 0.5, 0.2, 0.8

Answer: _____

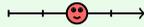
14. Mark where 0.5 is on this number line:





15. A number is halfway between 0.3 and 0.4. What is the number?

Answer: _____



Number Line Navigator!

*Why did the decimal love the number line?
Because it always knew exactly where to go!*





Section 3: Challenge - Equivalent Tenths/Hundredths

Explore the relationship between tenths and hundredths.

16. Is 0.5 the same as 0.50? Draw a picture or use words to explain your answer.

Answer: _____

17. Complete: 0.3 is the same as 0._____ (in hundredths)

18. Which is larger: 0.70 or 0.7? Explain.

Answer: _____

19. Write three-tenths as hundredths:

$$0.3 = 0.\underline{\hspace{1cm}}$$

20. True or False:

$$\frac{1}{10} = \frac{10}{100}$$

Answer: _____



21. Convert: $0.6 =$ _____ hundredths $=$ _____ tenths

22. Write

$$\frac{4}{10}$$

as a decimal in two ways:

Way 1 (tenths): _____

Way 2 (hundredths): _____

23. Challenge: Explain why 0.20 and 0.2 are equal:

Explanation: _____



Equivalence Expert!

Why do 0.5 and 0.50 get along so well?

Because they're exactly the same value!

Amazing work! You're a decimals master!



Answer Key

Worksheet 22: Hundredths & Fraction Connections

Section 1: Fluency - Hundredths Grids

1. Number of squares: **25**

As a fraction:

$$\frac{25}{100}$$

As a decimal: **0.25**

2. Fraction:

$$\frac{15}{100}$$

Decimal: **0.15**

3. Answer: **0.40** or **0.4**

4. **Students should shade 30 squares out of 100**

5. Fraction:

$$\frac{25}{100}$$

Decimal: **0.25**

6. Answer:

$$\frac{8}{100}$$

7. Answer: **0.50** or **0.5**

8. Answer: **0.75**

Section 2: Reasoning - Number Line Placement

9. **X should be placed at the 7th mark (at 0.7)**

10. Answer: **0.4**

11. **X should be placed at the 3rd mark (at 0.3)**



12. Answer: **0.9**

(0.9 is larger than 0.6)

13. Answer: **0.2, 0.5, 0.8**

14. **Mark should be placed at the middle (at 0.5)**

15. Answer: **0.35**

Section 3: Challenge - Equivalent Tenths/Hundredths

16. Answer: **Yes, 0.5 is the same as 0.50**

Explanation: **5 tenths equals 50 hundredths. They represent the same amount - half of a whole. Accept drawings showing 5 out of 10 parts equals 50 out of 100 parts.**

17. Answer: **30**

(0.3 = 0.30)

18. Answer: **They are equal**

Explanation: **0.70 is the same as 0.7. The zero at the end doesn't change the value.**

19. Answer: **30**

(0.3 = 0.30)

20. Answer: **True**

Explanation: One-tenth is equal to ten-hundredths

21. Answer: **60 hundredths = 6 tenths**

22. Way 1 (tenths): **0.4**

Way 2 (hundredths): **0.40**

23. Explanation: **0.20 means 20 hundredths, which is the same as 2 tenths (0.2). The zero at the end of 0.20 is a placeholder and doesn't change the value. Both represent the same amount.**



Spectacular Success!

You've mastered decimals, tenths, and hundredths!

Keep practicing and you'll become even more confident!

