



Year 4 Mathematics

Introduction to Fractions Workshop

Worksheet 19: Naming, Shading & Unit Fractions

Name: _____

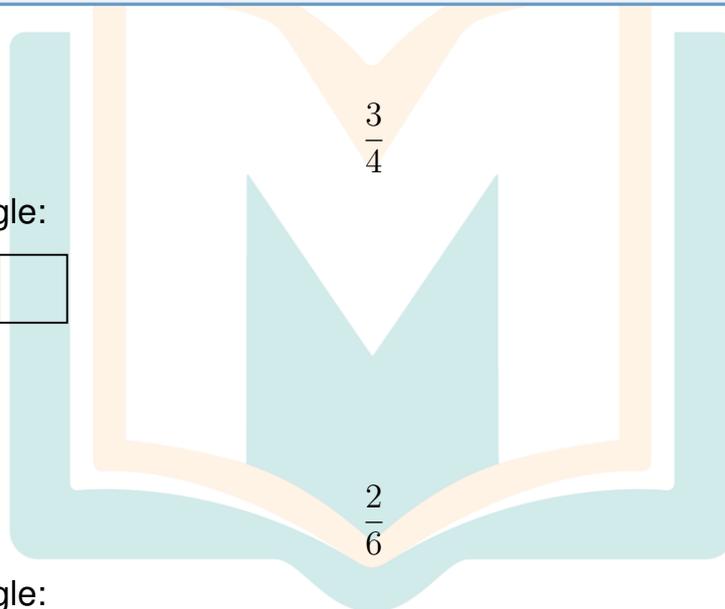
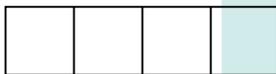
Date: _____

Section 1: Fluency - Shading Shapes

Shade the correct number of parts to show each fraction.

1. Shade

of this rectangle:

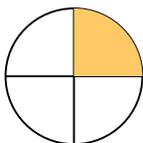


2. Shade

of this rectangle:



3. What fraction of this circle is shaded?



Answer: _____



4. Shade

$$\frac{5}{8}$$

of this bar:



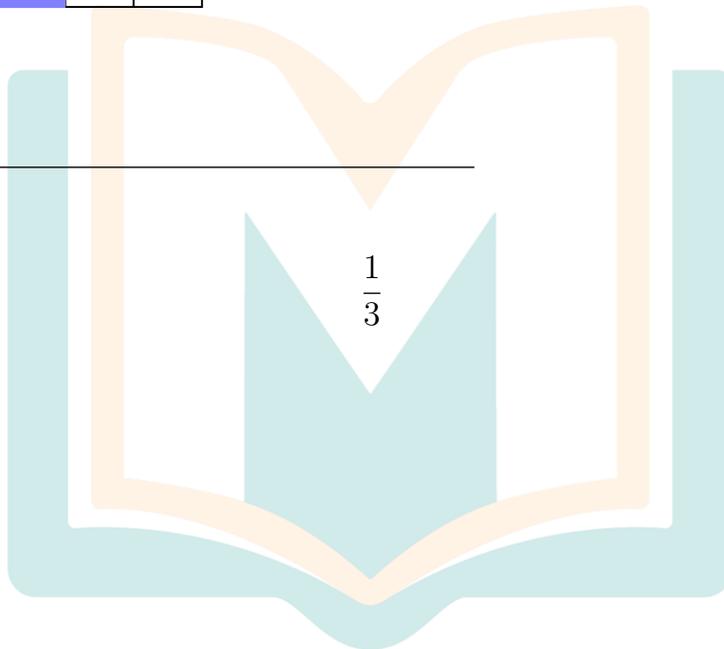
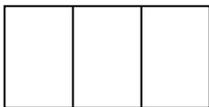
5. What fraction is shaded?



Answer: _____

6. Shade

of this shape:



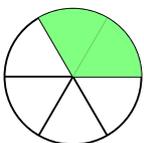
7. Shade

$$\frac{7}{8}$$

of this rectangle:



8. What fraction of this circle is shaded?





Answer: _____

Fraction Fruit!

Why did the orange love fractions?



Because it was already divided into equal parts!



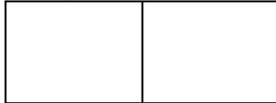


Section 2: Reasoning - Equal vs Unequal Parts

Fractions only work when parts are EQUAL in size.

9. Which shape shows a fair fraction? Circle the correct one.

Shape A:



A

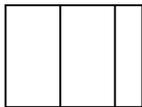
Shape B:



B

Explain why: _____

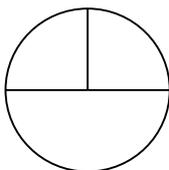
10. Can this shape be used to show fractions? Why or why not?



Answer: _____

11. Draw a rectangle divided into 4 EQUAL parts:

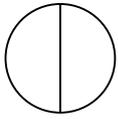
12. Look at this pizza. Is it divided equally? Why is this important for fractions?



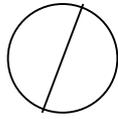
Answer: _____



13. Which shows halves correctly? Circle A or B.



A



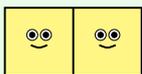
B

14. Draw a circle divided into 6 equal parts:

15. True or False: To make fractions, all the parts must be the same size.

Answer: _____

Equal Parts Champion!



Why did the chocolate bar love fractions?

Because every piece was equally delicious!



Section 3: Fluency - Proper Fractions

Write fractions using numerators (top) and denominators (bottom).

16. Write the fraction for "five-eighths" in numbers:

Answer: _____

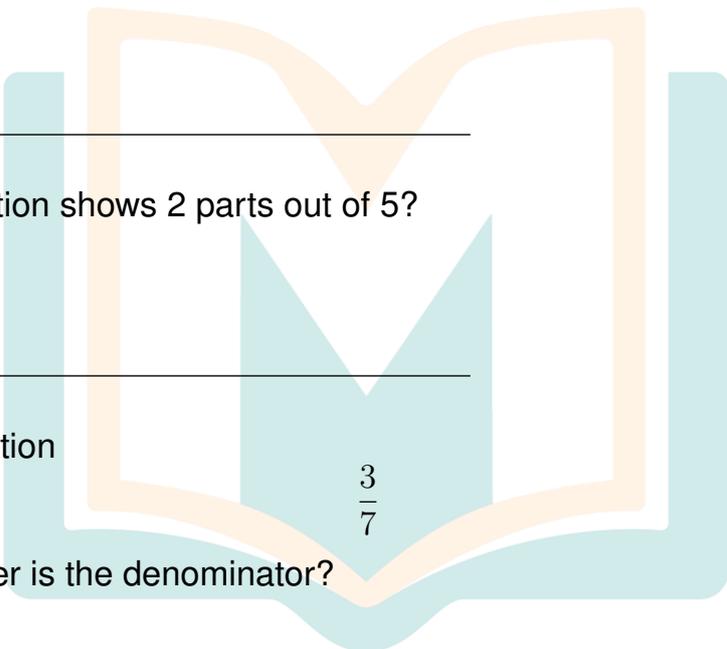
17. Write the fraction for "three-quarters" in numbers:

Answer: _____

18. What fraction shows 2 parts out of 5?

Answer: _____

19. In the fraction


$$\frac{3}{7}$$

, which number is the denominator?

Answer: _____

20. In the fraction

$$\frac{4}{9}$$

, which number is the numerator?

Answer: _____

21. Write "one-half" as a fraction:



Answer: _____

22. Write the fraction: numerator is 6, denominator is 10.

Answer: _____

23. What does the denominator tell us in a fraction?

Answer: _____

Part-of-the-Whole Hero!



Why was the numerator always on top?

Because it wanted to see the whole view!

Excellent! You understand fractions!



Answer Key

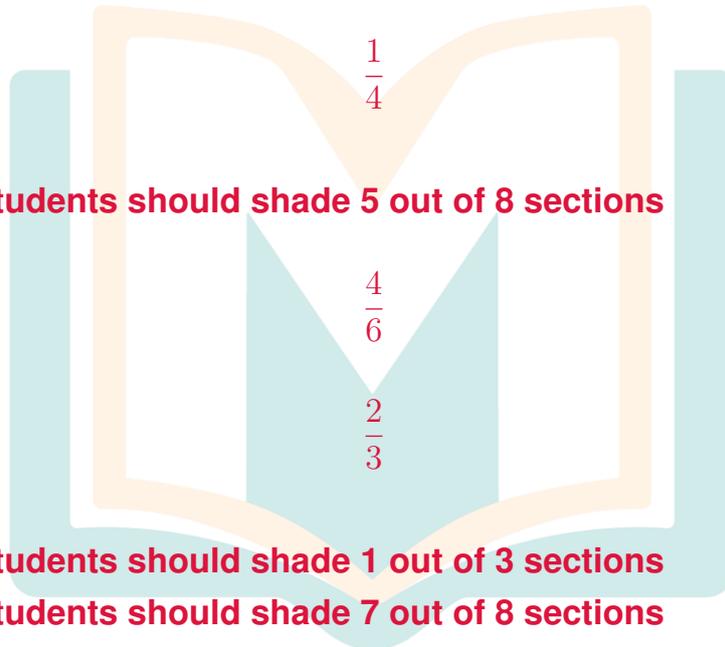
Worksheet 19: Naming, Shading & Unit Fractions

Section 1: Fluency - Shading Shapes

1. Answer: **Students should shade 3 out of 4 rectangles**

2. Answer: **Students should shade 2 out of 6 rectangles**

3. Answer:



4. Answer: **Students should shade 5 out of 8 sections**

5. Answer:

or

6. Answer: **Students should shade 1 out of 3 sections**

7. Answer: **Students should shade 7 out of 8 sections**

8. Answer:

$$\frac{2}{6}$$

or

$$\frac{1}{3}$$

Section 2: Reasoning - Equal vs Unequal Parts

9. Answer: **Shape A**

Explanation: **Shape A has equal halves; Shape B has unequal parts**



10. Answer: **No, because the parts are not equal in size**
11. Answer: **Students should draw a rectangle divided into 4 equal sections**
12. Answer: **No, it's not divided equally. For fractions, all parts must be the same size**
13. Answer: **A** (vertical line through center creates equal halves)
14. Answer: **Students should draw a circle divided into 6 equal sectors (like pizza slices)**
15. Answer: **True**

Section 3: Fluency - Proper Fractions

16. Answer:

$$\frac{5}{8}$$

17. Answer:

$$\frac{3}{4}$$

18. Answer:

$$\frac{2}{5}$$

19. Answer: **7** (the bottom number)

20. Answer: **4** (the top number)

21. Answer:

$$\frac{1}{2}$$

22. Answer:

$$\frac{6}{10}$$

23. Answer: **The denominator tells us how many equal parts the whole**



is divided into





Year 4 Mathematics

Introduction to Fractions Workshop

Worksheet 20: Number Lines & Equivalent Fractions

Name: _____

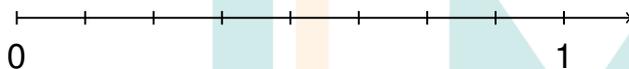
Date: _____

Section 1: Fluency - Fractions on a Line

Place fractions correctly on number lines.

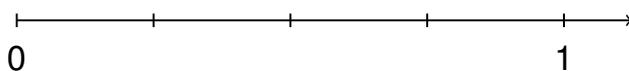
1. Mark where

belongs on this number line:

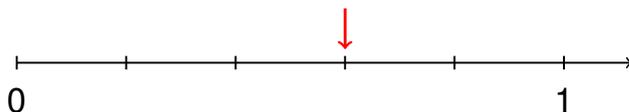


2. Mark where

belongs on this number line:



3. What fraction is marked with the arrow?



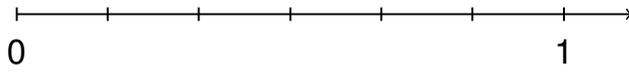
Answer: _____



4. Mark

$$\frac{3}{6}$$

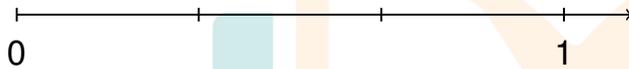
on this number line:



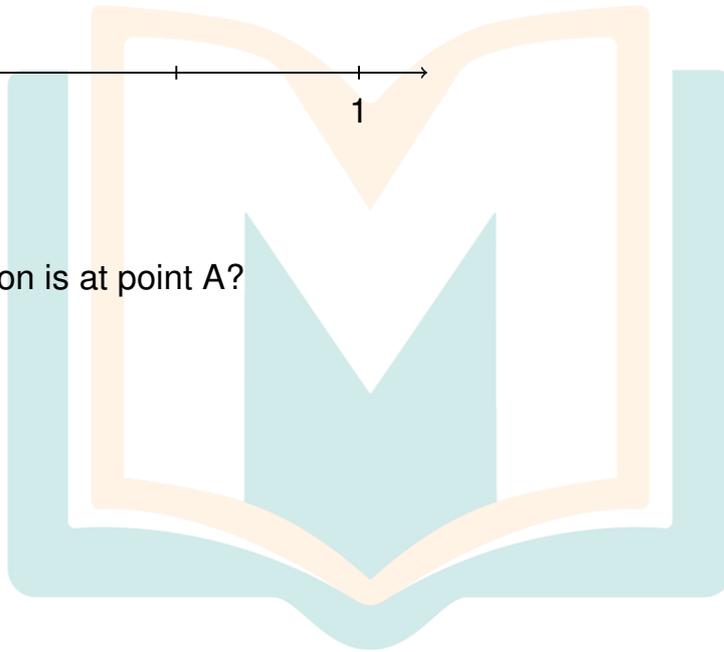
5. Place

$$\frac{2}{3}$$

on this line:



6. What fraction is at point A?





Section 2: Reasoning - Mixed Numerals

Mixed numerals show whole numbers AND fractions together.

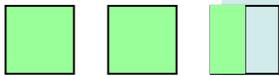
9. If I have one whole apple and half an apple, how do I write that as a mixed numeral?

Answer: _____

10. Write this as a mixed numeral: two whole pizzas and one-quarter of a pizza.

Answer: _____

11. Look at the shaded shapes. Write the mixed numeral:

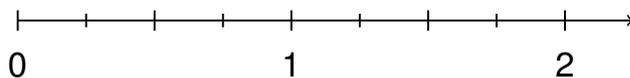


Answer: _____

12. Mark

$$1\frac{1}{2}$$

on this number line:



13. How many halves are in

$$2\frac{1}{2}$$

?



Answer: _____

14. Write the mixed numeral: three wholes and two-thirds.

Answer: _____

15. If a recipe needs

$$1\frac{3}{4}$$

cups of flour, is that more or less than 2 cups?

Answer: _____

Mixed Numeral Master!

Why did the mixed numeral feel complete?

Because it had the whole story AND a little bit more!





Section 3: Challenge - Equivalent Visuals

Different fractions can show the same amount!

16. Color

$$\frac{1}{2}$$

of the first bar. Color the second bar to match it. How many fourths did you color?



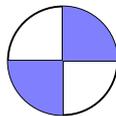
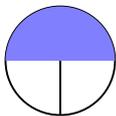
Answer: _____

17. These fractions are equivalent. Fill in the blank:

$$\frac{1}{2} = \frac{?}{4}$$

Answer: _____

18. Look at these two circles. Are the shaded parts equivalent?



Answer: _____

19. Complete:

$$\frac{2}{4} = \frac{?}{2}$$



Answer: _____

20. Are

$$\frac{3}{6}$$

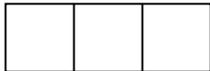
and

$$\frac{1}{2}$$

equivalent? Use a drawing to explain.

Answer: _____

21. Shade equivalent amounts:



thirds



sixths

Show that

$$\frac{2}{3} = \frac{4}{6}$$

22. Complete:

$$\frac{4}{8} = \frac{2}{?}$$

Answer: _____

23. True or False:

$$\frac{1}{3}$$

is equivalent to

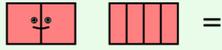
$$\frac{2}{6}$$



Answer: _____

Equivalent Expert!

Why did the fractions look different but feel the same?



Because they were equivalent twins!

Fantastic! You're a fraction expert!





Answer Key

Worksheet 20: Number Lines & Equivalent Fractions

Section 1: Fluency - Fractions on a Line

1. Answer: **Mark should be at the 5th tick mark from 0**
2. Answer: **Mark should be at the 1st quarter position (2nd tick mark)**
3. Answer:

4. Answer: **Mark at the 3rd tick mark (halfway)**
5. Answer: **Mark at the 2nd tick mark (two-thirds position)**
6. Answer:

7. Answer: **Mark at the 7th tick mark from 0**
8. Answer: **0,**

,
(or
,
, 1

$$\frac{3}{5}$$

$$\frac{1}{2}$$

$$\frac{1}{4}$$

$$\frac{2}{4}$$

$$\frac{1}{2}$$

$$\frac{3}{4}$$

Section 2: Reasoning - Mixed Numerals



9. Answer:

$$1\frac{1}{2}$$

10. Answer:

$$2\frac{1}{4}$$

11. Answer:

$$2\frac{1}{2}$$

12. Answer: **Mark should be at the 6th tick (halfway between 1 and 2)**

13. Answer: **5 halves** ($2 + 2 + 1 = 5$)

14. Answer:

$$3\frac{2}{3}$$

15. Answer: **Less than 2 cups**

Section 3: Challenge - Equivalent Visuals

16. Answer: **2 fourths** (

$$\frac{1}{2} = \frac{2}{4}$$

)

Students should color half of Bar 1 and 2 quarters of Bar 2.

17. Answer: **2** (

$$\frac{1}{2} = \frac{2}{4}$$

)

18. Answer: **Yes, both show**

$$\frac{1}{2}$$

(or

$$\frac{2}{4}$$



)

19. Answer: **1** (

$$\frac{2}{4} = \frac{1}{2}$$

)

20. Answer: **Yes, they are equivalent**

Students should show that 3 out of 6 equal parts is the same as 1 out of 2 parts.

21. Answer: **Students should shade 2 thirds and 4 sixths to show equivalence**

22. Answer: **4** (

$$\frac{4}{8} = \frac{2}{4}$$

, which also equals

$$\frac{1}{2}$$

)

23. Answer: **True**

Congratulations!

You are now a Fractions Expert!

Keep exploring the wonderful world of fractions!