

# Meaning of Fractions

A **fraction** names part of a whole. This circle has 4 equal parts. Each part is  $\frac{1}{4}$  of the circle.

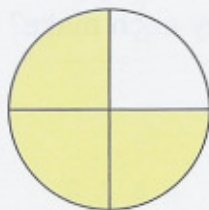
Three of the equal parts are shaded yellow.

numerator

3 — three yellow parts

4 — four parts in all

denominator



We read  $\frac{3}{4}$  as three-fourths.

A fraction also names parts of a group. Two of the five cookies are chocolate chip.

2 — two chocolate chip cookies

5 — five cookies in all



Two-fifths are chocolate chip.

Write the fraction and the word name for the part that is shaded.

a

b

c

1.



$\frac{2}{3}$

or two-thirds



or

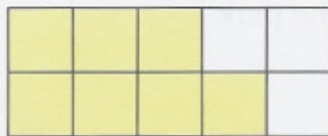


or

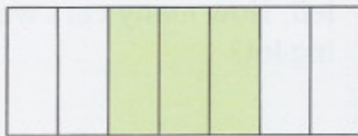
2.



or



or



or

Write the fraction for the word name.

a

b

c

3. three-eighths  $\frac{3}{8}$

one-fourth \_\_\_\_\_

four-fifths \_\_\_\_\_

Write the word name for the fraction.

a

b

c

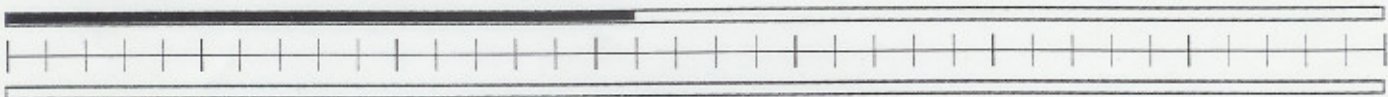
4.  $\frac{5}{6}$  five-sixths

$\frac{2}{7}$  \_\_\_\_\_

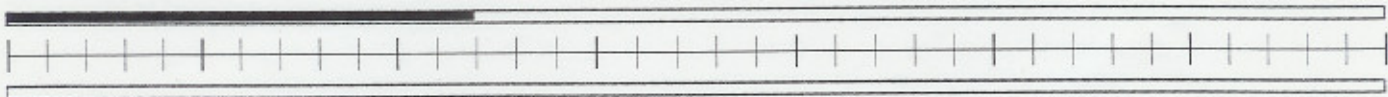
$\frac{7}{8}$  \_\_\_\_\_

Find the whole line from which the top was cut. Draw the whole on the bottom.

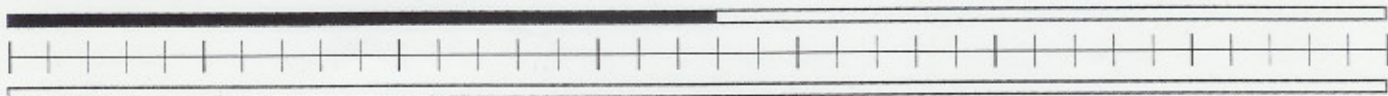
1.  $\frac{2}{3}$



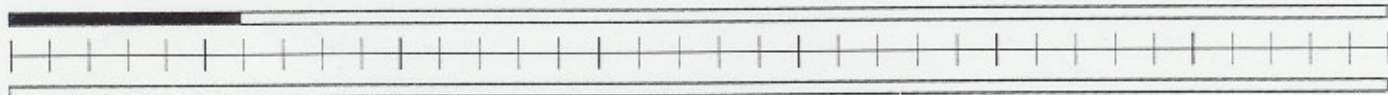
2.  $\frac{3}{6}$



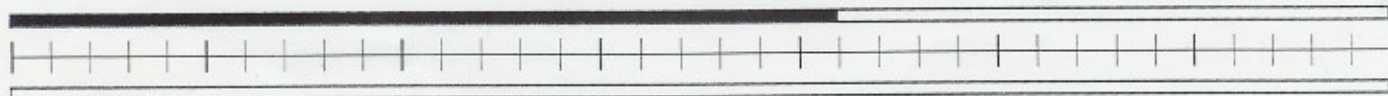
3.  $\frac{3}{4}$



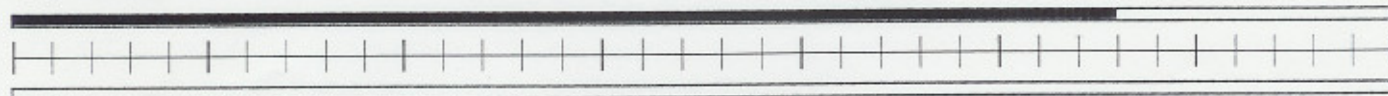
4.  $\frac{2}{9}$



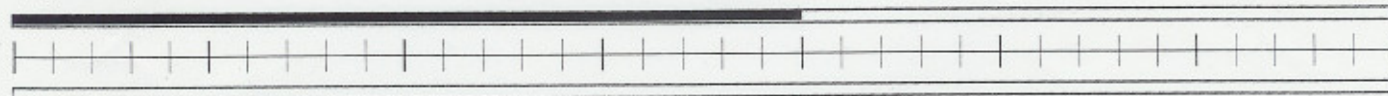
5.  $\frac{7}{8}$



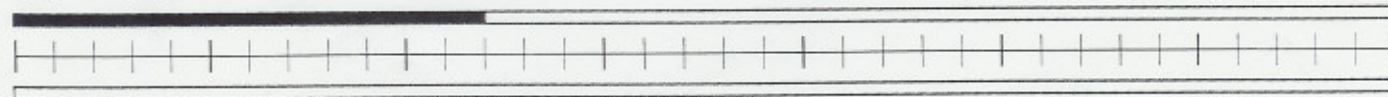
6.  $\frac{4}{5}$



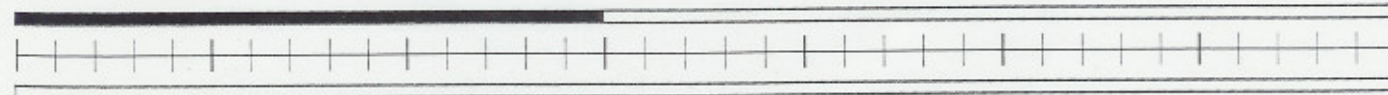
7.  $\frac{4}{7}$



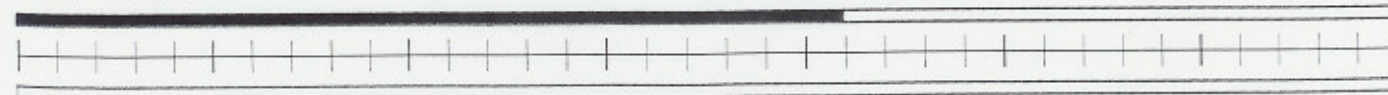
8.  $\frac{4}{9}$



9.  $\frac{5}{11}$



10.  $\frac{7}{11}$





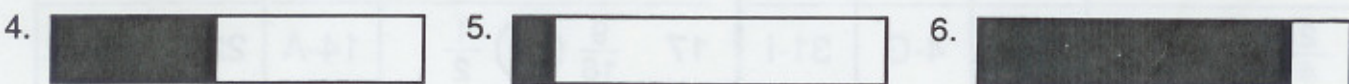
# What Did the Mermaid Do on Saturday Night?

For each exercise, circle the best choice. Write the letter next to your answer in the box containing the exercise number.

I. Circle the fraction that tells about how much of each bar is shaded.



- (L)  $\frac{1}{10}$  (T)  $\frac{7}{8}$  (A)  $\frac{4}{9}$  (Y)  $\frac{5}{6}$  (K)  $\frac{2}{15}$  (E)  $\frac{6}{11}$  (N)  $\frac{9}{20}$  (O)  $\frac{2}{17}$  (V)  $\frac{4}{7}$



- (H)  $\frac{7}{16}$  (I)  $\frac{1}{5}$  (B)  $\frac{11}{14}$  (R)  $\frac{7}{10}$  (P)  $\frac{10}{21}$  (S)  $\frac{1}{9}$  (G)  $\frac{3}{7}$  (F)  $\frac{3}{19}$  (E)  $\frac{11}{13}$



- (U)  $\frac{7}{15}$  (I)  $\frac{3}{14}$  (M)  $\frac{3}{5}$  (J)  $\frac{1}{8}$  (D)  $\frac{4}{9}$  (T)  $\frac{14}{17}$  (H)  $\frac{7}{12}$  (A)  $\frac{13}{16}$  (R)  $\frac{3}{10}$

II. Circle the fraction that matches the description given.

10. Close to 0

- (N)  $\frac{3}{7}$  (Y)  $\frac{17}{20}$  (E)  $\frac{1}{10}$

11. Close to  $\frac{1}{2}$

- (I)  $\frac{8}{15}$  (C)  $\frac{4}{5}$  (P)  $\frac{3}{16}$

12. Close to 1

- (K)  $\frac{3}{8}$  (W)  $\frac{8}{9}$  (F)  $\frac{7}{13}$

13. Close to 0

- (O)  $\frac{5}{9}$  (E)  $\frac{2}{13}$  (R)  $\frac{17}{18}$

14. Close to  $\frac{1}{2}$

- (N)  $\frac{2}{9}$  (S)  $\frac{9}{10}$  (T)  $\frac{5}{11}$

15. Close to 1

- (T)  $\frac{3}{5}$  (H)  $\frac{17}{20}$  (O)  $\frac{7}{16}$

16. Close to 0

- (R)  $\frac{5}{12}$  (E)  $\frac{9}{8}$  (T)  $\frac{7}{100}$

17. Close to  $\frac{1}{2}$

- (W)  $\frac{9}{16}$  (K)  $\frac{16}{9}$  (F)  $\frac{2}{7}$

18. Close to 1

- (N)  $\frac{10}{17}$  (C)  $\frac{1}{10}$  (D)  $\frac{13}{12}$

19. Less than  $\frac{1}{2}$

- (G)  $\frac{2}{3}$  (N)  $\frac{6}{14}$  (R)  $\frac{9}{16}$

20. More than  $\frac{1}{2}$

- (U)  $\frac{13}{25}$  (L)  $\frac{2}{5}$  (I)  $\frac{49}{100}$

21. Less than 1

- (M)  $\frac{8}{7}$  (G)  $\frac{20}{19}$  (T)  $\frac{19}{20}$

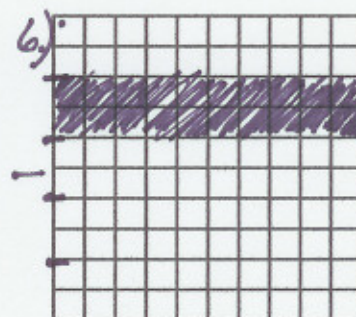
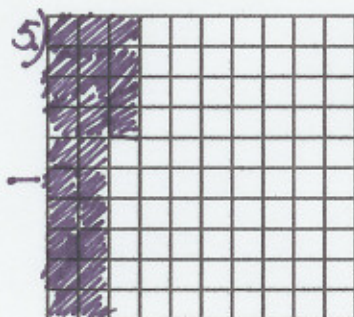
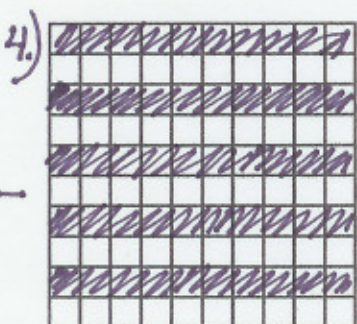
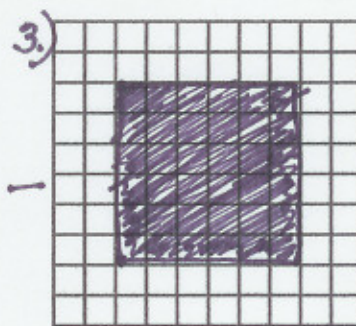
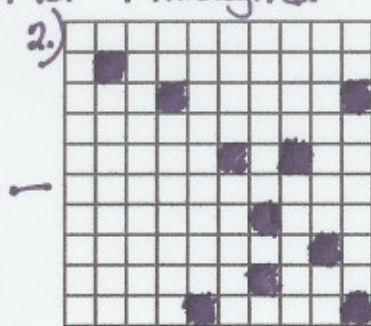
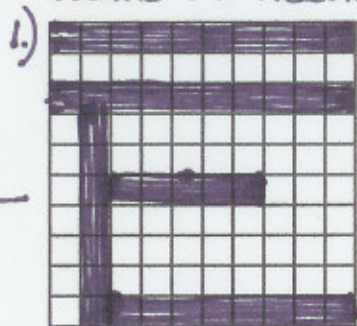
5	15	10		17	2	19	8		3	20	14		12	7	16	4		1	9	13		21	11	18	6
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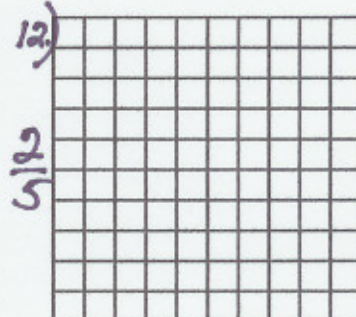
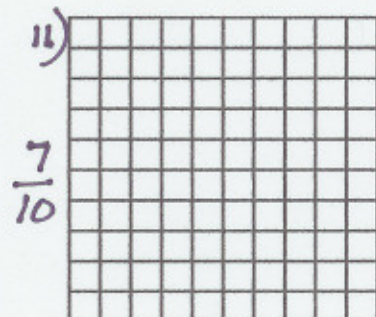
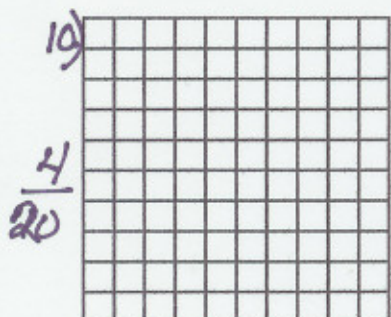
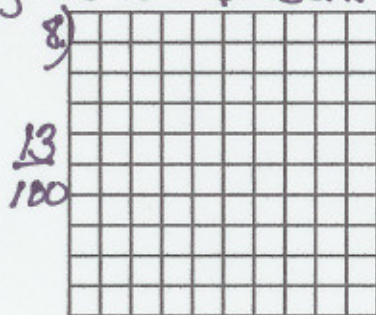
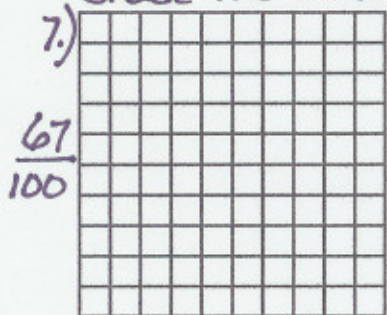
# 10 x 10 Grids

NAME \_\_\_\_\_

Name the fraction for 1 through 6.



Shade the 10x10 grids to represent each fraction for 7 through 12.



# Practice 5

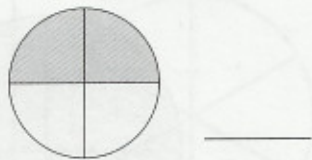
1. Write the fraction for the shaded part.



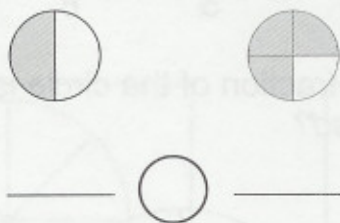
2. Write the fraction for the shaded part.



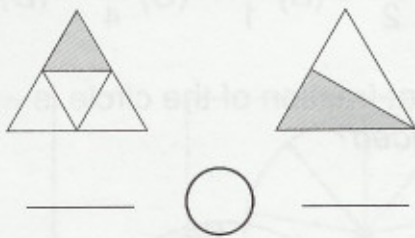
3. Write the fraction for the shaded part.



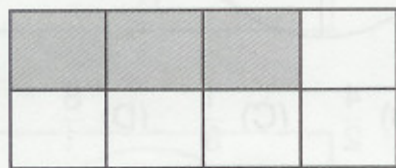
4. Write the fraction. Write < or > to compare the fractions.



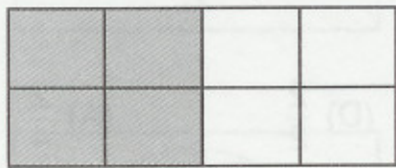
5. Write the fraction. Write < or > to compare the fractions.



6. Write the fraction for the shaded part.



7. Write the fraction for the shaded part.



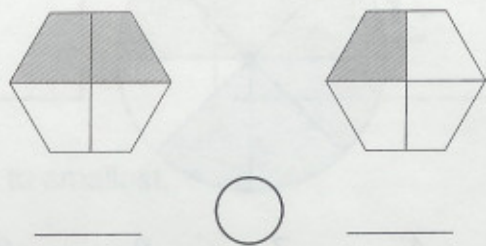
8. Write the fraction for the shaded part.



9. Write the fraction. Write < or > to compare the fractions.



10. Write the fraction. Write < or > to compare the fractions.





# Practice 2

A *fraction* is a part (or parts) of a whole item or shape.

 $\frac{2}{3}$ 

Two parts out of three are shaded.

 $\frac{1}{5}$ 

One part out of five is shaded.

**Directions:** Look at each shape. Write the fraction that tells how many parts of the whole object are shaded. The first one has already been done for you.

1.

 $\frac{1}{3}$ 

2.

 $\frac{3}{6}$ 

3.

 $\frac{2}{5}$ 

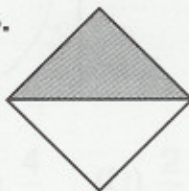
4.

 $\frac{2}{4}$ 

5.

 $\frac{1}{2}$ 

6.

 $\frac{1}{2}$ 

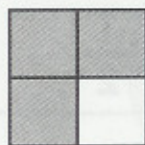
7.

 $\frac{6}{9}$ 

8.

 $\frac{1}{4}$ 

9.

 $\frac{3}{4}$ 

10.

 $\frac{3}{6}$ 

11.

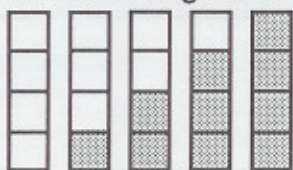
 $\frac{2}{4}$ 

12.

 $\frac{2}{3}$

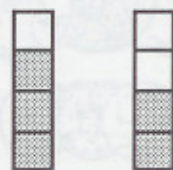
# Problem solving: comparing, ordering and estimating fractions

These fraction bars are ordered from least to greatest.



$$\frac{0}{4} \quad \frac{1}{4} \quad \frac{2}{4} \quad \frac{3}{4} \quad \frac{4}{4} \quad (\text{or } 1)$$

>, < or = ?



$$\frac{3}{4} > \frac{2}{4}$$

Pattern: To order or compare fractions with the same denominator, order or compare the numerators.

These fractions are equivalent to 1.

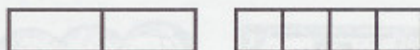


These fractions are close to 1.

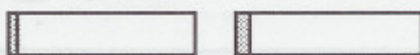


How can we tell if a fraction is close to 1?

These fractions are equivalent to zero.



These fractions are close to 0.



How can we tell if a fraction is close to 0?

Order from least to greatest:

1.  $\frac{3}{5} \quad \frac{1}{5} \quad \frac{2}{5} \quad \frac{5}{5} \quad \frac{0}{5}$

---

2.  $\frac{7}{6} \quad \frac{4}{6} \quad \frac{1}{6} \quad \frac{6}{6} \quad \frac{3}{6}$

---

3.  $\frac{7}{8} \quad \frac{4}{8} \quad \frac{9}{8} \quad \frac{8}{8} \quad \frac{5}{8}$

---

4.  $\frac{3}{4} \quad \frac{6}{4} \quad 1 \quad \frac{5}{4} \quad \frac{7}{4}$

---

>, <, = ?

5.  $\frac{2}{3} \quad \frac{1}{3}$

6.  $\frac{11}{12} \quad \frac{12}{12}$

7.  $\frac{5}{10} \quad 1$

8.  $\frac{8}{4} \quad 2$

9.  $\frac{2}{5} \quad \frac{7}{5}$

10.  $\frac{1}{12} \quad 0$

11.  $\frac{9}{6} \quad \frac{7}{6}$

12.  $1 \quad \frac{5}{8}$

Is each fraction closer to 0 or 1?

13.  $\frac{11}{12}$

14.  $\frac{3}{4}$

15.  $\frac{2}{5}$

16.  $\frac{5}{10}$

17.  $\frac{7}{10}$

18.  $\frac{2}{3}$

19.  $\frac{2}{12}$

20.  $\frac{3}{6}$